

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 007-22586 0000

County Barber County, Kansas

30 N C N/2 - N/2 - SW Sec. 13 Twp. 34 Rge. 14 X W

2340 Feet from S/N (circle one) Line of Section  
3960 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Lease Name Bouziden Well # 2

Field Name Aetna Gas Area

Producing Formation Toronto

Elevation: Ground 1638 KB 1648

Total Depth 5270' PBTD 5300'

Amount of Surface Pipe Set and Cemented at 329 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm Fluid volume 160 bbls

Dewatering method used Hauled off

Location of fluid disposal if hauled offsite:

Operator Name Oil Producers of Kasnas

Lease Name Watson License No. 1

SW/4 Quarter Sec. 8 Twp. 29S S Rng. 15W E/W

County Pratt Docket No. D-24324

Operator: License # 3532 ORIGINAL

Name: CMX, Inc.

Address 150 N. Main - Suite 1026

City/State/Zip Wichita, Kansas 67202

Purchaser: KGS

Operator Contact Person: Douglas McGinness II

Phone (316) 269-9052

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Doug McGinness

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  S1OW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

09-23-98 10-04-98 10-05-98  
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.


Signature \_\_\_\_\_

Title President Date 2/12/99

Subscribed and sworn to before me this 12 day of February, 19 99.

Notary Public \_\_\_\_\_

Date Commission Expires 2/7/2000

 **DONNA L. MAY**  
Notary Public - State of Kansas  
My Appt. Expires 2/7/2000

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

Operator Name CMX, Inc. Lease Name Bouziden Well # 2

County Barber County, Kansas  
 Sec. 13 Twp. 34 Rge. 14  
 East  West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow-rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy.)

List All E.Logs Run:  
 Log-Tech  
 DIL  
 CND

Name	Top	Datum
Kanwaka Shale	3730	-2085
Oread Lst	3904	-2259
Heebner Sh	3937	-2292
Synderville Zn	3949	-2304
Totonto Lst	3959	-2314
Upper Dg. Lst	3978	-2333
Douglas Sh	4020	-2375
Lansing	4116	-2473
B/KC	4597	-2952
TD	5270	-3625

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	23#	329'	60/40 Poz	225'	3%cc 2%cc
Production	7-7/8"	4-1/2"	10.5#	4156'	MidconII EA2	180 100	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
2	3998-4004	250 gal 15% followed by 20,000 lbs 20/40
2	3979-3990	swd & 17,000 gallons Deltra fluid, frac job.

TUBING RECORD Size 2 3/8 Set At 3970 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 1/16/99 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		COF 734 MCF	15		

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

ORIGINAL

15-007-22586

WELL NAME:

Bouziden #2

COMPANY:

CMX Inc.

LOCATION:

13-34s-14w

Barber County, Kansas

DATE:

10/6/98

RECEIVED  
State of Kansas

FEB 18 1999

CONSERVATION DIVISION  
Wichita, Kansas

TRILOBITE TESTING L.L.C.

OPERATOR : CMX, Inc. DATE 09/29/199  
 WELL NAME: Bouziden #2 KB 1685.00 ft TICKET NO: 11857 DST #1  
 LOCATION : 13-34s-14w Barber co. KS GR 1676.00 ft FORMATION: Kansas city  
 INTERVAL : 4130.00 To 4150.00 ft TD 4150.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	2357			PF Fr. 0904 to 0934 hr
SI 45 Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0934 to 1019 hr
SF 45 Clock(hrs)	12hr.	12hr	elec.			SF Fr. 1019 to 1104 hr
FS 60 Depth(ft )	4147.0	4147.0	4136.0	0.0	0.0	FS Fr. 1104 to 1204 hr

	Field	1	2	3	4	
A. Init Hydro	2018.0	2027.0	2014.0	0.0	0.0	T STARTED 0654 hr
B. First Flow	91.0	99.0	52.0	0.0	0.0	T ON BOTM 0902 hr
B1. Final Flow	354.0	373.0	357.0	0.0	0.0	T OPEN 0904 hr
C. In Shut-in	1529.0	1534.0	1537.0	0.0	0.0	T PULLED 1204 hr
D. Init Flow	395.0	401.0	371.0	0.0	0.0	T OUT 1410 hr
E. Final Flow	689.0	683.0	693.0	0.0	0.0	
F. Fl Shut-in	1529.0	1541.0	1539.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2008.0	2004.0	1945.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 58000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 4107.00 ft

RECOVERY

Tot Fluid 1470.00 ft of 0.00 ft in DC and 1470.00 ft in DP  
 120.00 ft of Slight water cut mud 70% water 30% mud  
 1350.00 ft of Salt water  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

SALINITY 140000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	48.00 S/L
W.L.	10.50 in3
F.C.	0.32 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:  
 Fair blow bottom of bucket in  
 4 1/2 mins.  
 Initial Shut-in:  
 Bled down for 5 mins.  
 Final Flow:  
 Fair blow built to bottom of bucket  
 in 5 mins.  
 Final Shut-in:  
 Bled down for 5 mins. weak surface  
 blow back

Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Doug McGinness
Contr.	Duke
Rig #	4
Unit #	no
Pump T.	none

SAMPLES:  
 SENT TO:

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

L NAME: Bouziden #2

ATION : 13-34s-14w Barber co. KS

KET No. 11857 D.S.T. No. 1 DATE 09/29/199

AL TOOL TO BOTTOM OF TOP PACKERS ..... 28

ERVAL TOOL .....

TOM PACKERS AND ANCHOR ..... 20

AL TOOL ..... 48

LL COLLAR ANCHOR IN INTERVAL .....

1. ANCHOR STND.Stands Single Total

2. ANCHOR STND.Stands Single Total

VAL ASSEMBLY .....

3. ABOVE TOOLS.Stands Single Total

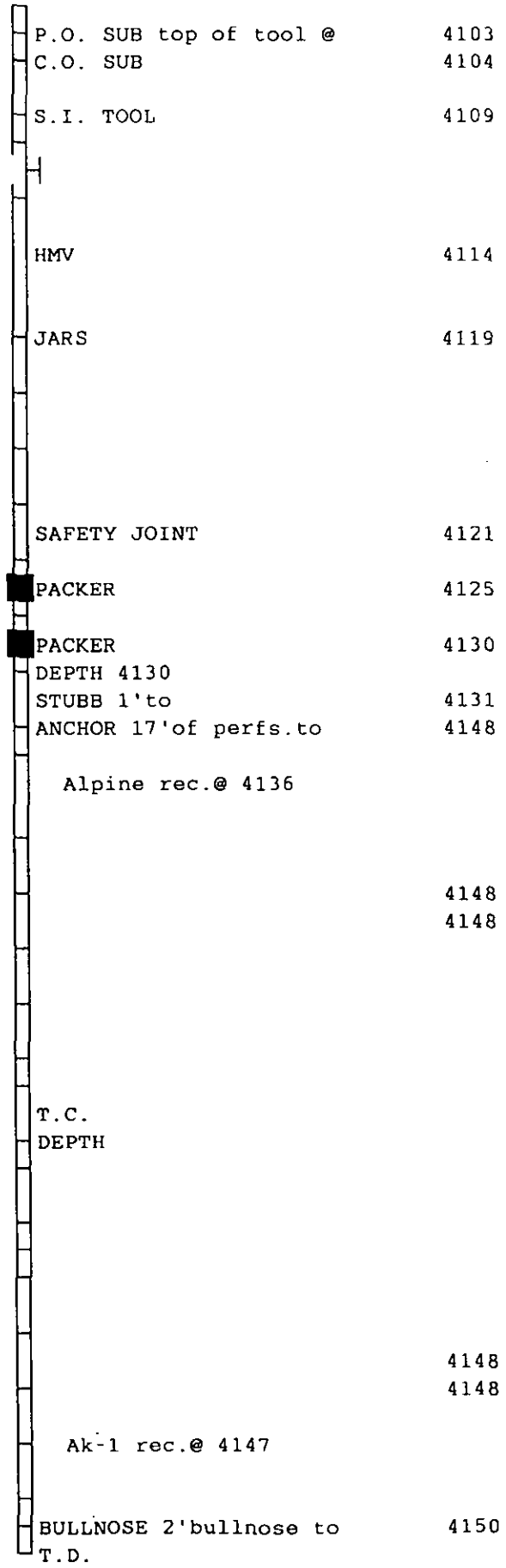
4. ABOVE TOOLS.Stands66 Single Total 4107

VAL DRILL COLLARS DRILL PIPE & TOOLS .. 4155

VAL DEPTH ..... 4150

VAL DRILL PIPE ABOVE K.B. .... 5

MARKS:



# TEST HISTORY

Tk#11857 DST#1 Bouziden #2 CMX, Inc.

Flag Points

	t (Min.)	P (PSIg)
A:	0.00	2014.04
B:	0.00	52.32
C:	29.00	356.61
D:	45.00	1537.01
E:	0.00	370.63
F:	44.00	693.19
G:	61.00	1538.58
Q:	0.00	1944.89

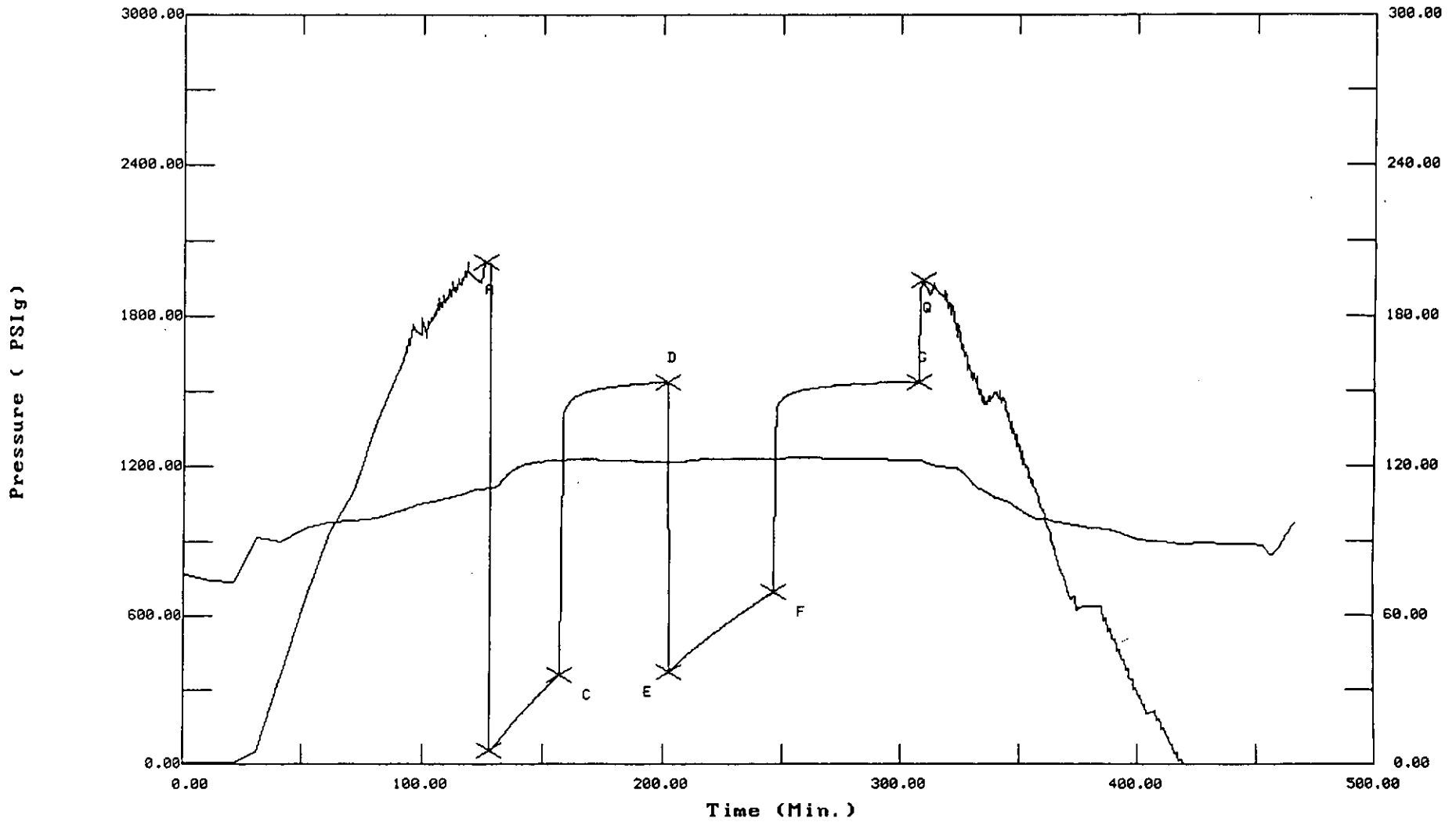
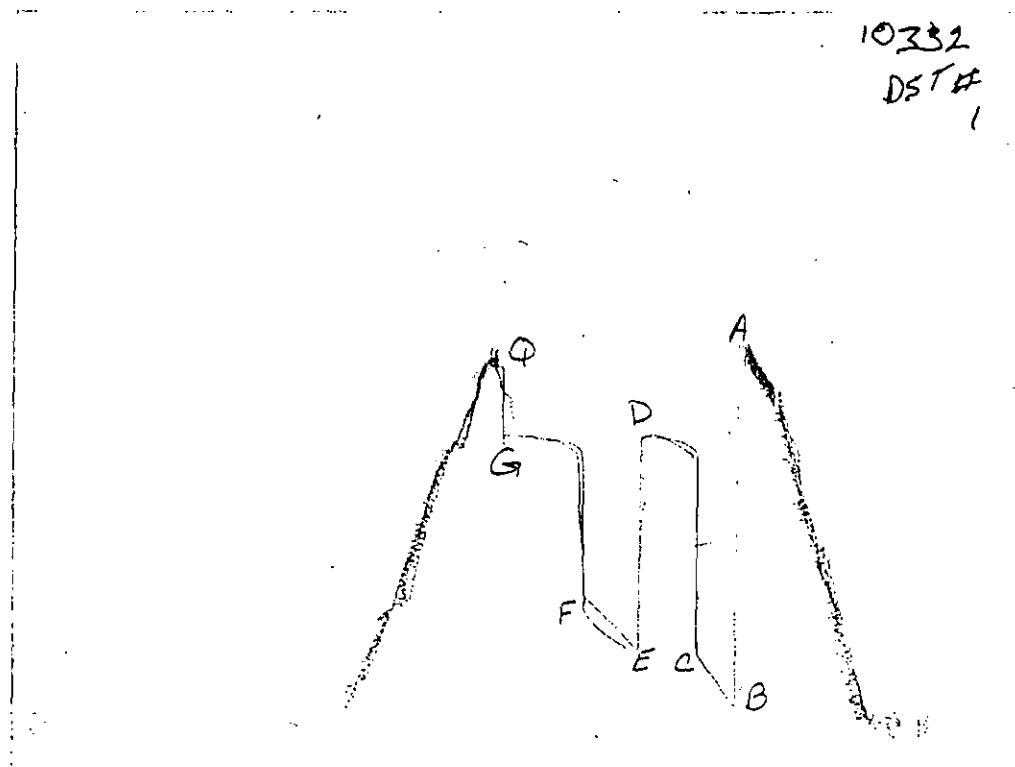


CHART PAGE

10332  
DST#  
1



This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11857 DST#1 Bouziden #2 CMX, Inc.

DATE: 09/29/98

TIME: 06:56:33

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	126.00	2014.0	0.0	111.17		
***** Start Flow 1	0.00	52.3	0.0	111.42		
	0.50	54.5	2.2	111.48		
	1.00	56.8	4.5	111.52		
	1.50	61.7	9.4	111.57		
	2.00	68.5	16.1	111.67		
	2.50	74.5	22.2	111.89		
	3.00	81.2	28.9	112.25		
	3.50	88.1	35.8	112.72		
	4.00	93.3	40.9	113.29		
	4.50	99.4	47.1	113.86		
	5.00	105.6	53.3	114.46		
	5.50	112.0	59.7	115.06		
	6.00	117.8	65.5	115.61		
	6.50	124.0	71.7	116.10		
	7.00	129.8	77.5	116.63		
	7.50	135.7	83.4	117.09		
	8.00	141.7	89.4	117.52		
	8.50	147.5	95.2	117.91		
	9.00	153.8	101.4	118.28		
	9.50	159.7	107.4	118.62		
	10.00	165.5	113.2	118.94		
	10.50	171.2	118.9	119.23		
	11.00	176.6	124.2	119.51		
	11.50	182.3	130.0	119.75		
	12.00	188.2	135.8	119.98		
	12.50	193.8	141.5	120.18		
	13.00	199.4	147.1	120.37		
	13.50	204.4	152.1	120.54		
	14.00	209.4	157.1	120.70		
	14.50	214.7	162.4	120.85		
	15.00	219.8	167.5	120.98		
	15.50	224.9	172.6	121.09		
	16.00	230.4	178.0	121.22		
	16.50	235.4	183.1	121.32		
	17.00	240.3	188.0	121.42		
	17.50	245.7	193.4	121.50		
	18.00	250.7	198.4	121.58		
	18.50	255.6	203.3	121.65		
	19.00	261.2	208.9	121.72		
	19.50	266.4	214.1	121.77		
	20.00	271.8	219.5	121.83		
	20.50	276.8	224.5	121.88		
	21.00	281.6	229.3	121.92		
	21.50	286.3	234.0	121.96		
	22.00	291.4	239.1	122.01		
	22.50	296.2	243.9	122.03		
	23.00	301.0	248.7	122.07		
	23.50	305.9	253.6	122.11		
	24.00	310.6	258.3	122.14		
	24.50	315.4	263.1	122.17		



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk#11857 DST#1 Bouziden #2 CMX, Inc.

DATE: 09/29/98

TIME: 06:56:33

	Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.00	320.4	268.1	122.20		
	25.50	324.9	272.6	122.22		
	26.00	329.4	277.1	122.25		
	26.50	334.3	282.0	122.27		
	27.00	338.7	286.4	122.29		
	27.50	343.1	290.8	122.32		
	28.00	347.9	295.6	122.34		
	28.50	352.3	299.9	122.37		
**** End Flow 1	29.00	356.6	304.3	122.39		
**** Start Shutin 1	0.00	356.6	0.0	122.39	0.0000	0.127
	0.50	798.6	442.0	122.41	59.0000	0.638
	1.00	1370.0	1013.4	122.46	30.0000	1.877
	1.50	1409.9	1053.3	122.51	20.3333	1.988
	2.00	1427.5	1070.9	122.56	15.5000	2.038
	2.50	1438.6	1082.0	122.62	12.6000	2.070
	3.00	1447.3	1090.7	122.68	10.6667	2.095
	3.50	1454.1	1097.5	122.72	9.2857	2.114
	4.00	1459.7	1103.1	122.77	8.2500	2.131
	4.50	1464.6	1108.0	122.83	7.4444	2.145
	5.00	1468.9	1112.3	122.87	6.8000	2.158
	5.50	1472.5	1115.9	122.92	6.2727	2.168
	6.00	1475.7	1119.1	122.96	5.8333	2.178
	6.50	1478.7	1122.0	122.98	5.4615	2.186
	7.00	1481.3	1124.7	122.99	5.1429	2.194
	7.50	1483.8	1127.2	123.00	4.8667	2.202
	8.00	1486.1	1129.5	123.00	4.6250	2.209
	8.50	1488.2	1131.6	122.98	4.4118	2.215
	9.00	1490.3	1133.7	122.97	4.2222	2.221
	9.50	1492.1	1135.5	122.95	4.0526	2.226
	10.00	1493.9	1137.2	122.93	3.9000	2.232
	10.50	1495.5	1138.9	122.90	3.7619	2.237
	11.00	1497.0	1140.4	122.88	3.6364	2.241
	11.50	1498.5	1141.9	122.85	3.5217	2.246
	12.00	1499.9	1143.3	122.83	3.4167	2.250
	12.50	1501.2	1144.6	122.80	3.3200	2.254
	13.00	1502.4	1145.8	122.77	3.2308	2.257
	13.50	1503.7	1147.1	122.75	3.1481	2.261
	14.00	1504.8	1148.2	122.72	3.0714	2.265
	14.50	1505.9	1149.3	122.70	3.0000	2.268
	15.00	1507.0	1150.4	122.67	2.9333	2.271
	15.50	1508.0	1151.4	122.64	2.8710	2.274
	16.00	1509.0	1152.4	122.62	2.8125	2.277
	16.50	1509.9	1153.3	122.60	2.7576	2.280
	17.00	1510.8	1154.2	122.57	2.7059	2.283
	17.50	1511.7	1155.1	122.55	2.6571	2.285
	18.00	1512.6	1156.0	122.52	2.6111	2.288
	18.50	1513.3	1156.7	122.50	2.5676	2.290
	19.00	1514.1	1157.5	122.48	2.5263	2.293
	19.50	1514.9	1158.3	122.47	2.4872	2.295
	20.00	1515.6	1159.0	122.44	2.4500	2.297
	20.50	1516.3	1159.7	122.42	2.4146	2.299

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11857 DST#1 Bouziden #2 CMX, Inc.

DATE: 09/29/98

TIME: 06:56:33

Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
21.00	1517.1	1160.5	122.40	2.3810	2.301
21.50	1517.7	1161.1	122.38	2.3488	2.304
22.00	1518.4	1161.8	122.36	2.3182	2.306
22.50	1519.0	1162.4	122.34	2.2889	2.307
23.00	1519.7	1163.1	122.32	2.2609	2.309
23.50	1520.3	1163.7	122.30	2.2340	2.311
24.00	1520.9	1164.3	122.28	2.2083	2.313
24.50	1521.5	1164.9	122.27	2.1837	2.315
25.00	1522.1	1165.5	122.24	2.1600	2.317
25.50	1522.7	1166.0	122.23	2.1373	2.318
26.00	1523.2	1166.6	122.21	2.1154	2.320
26.50	1523.7	1167.1	122.19	2.0943	2.322
27.00	1524.2	1167.6	122.17	2.0741	2.323
27.50	1524.7	1168.1	122.16	2.0545	2.325
28.00	1525.3	1168.6	122.14	2.0357	2.326
28.50	1525.8	1169.2	122.12	2.0175	2.328
29.00	1526.2	1169.6	122.10	2.0000	2.329
29.50	1526.6	1170.0	122.09	1.9831	2.331
30.00	1527.2	1170.6	122.07	1.9667	2.332
30.50	1527.6	1171.0	122.06	1.9508	2.333
31.00	1528.0	1171.4	122.04	1.9355	2.335
31.50	1528.4	1171.8	122.02	1.9206	2.336
32.00	1528.8	1172.2	122.00	1.9062	2.337
32.50	1529.2	1172.6	121.99	1.8923	2.339
33.00	1529.6	1173.0	121.97	1.8788	2.340
33.50	1530.0	1173.4	121.96	1.8657	2.341
34.00	1530.4	1173.8	121.94	1.8529	2.342
34.50	1530.8	1174.2	121.93	1.8406	2.343
35.00	1531.2	1174.6	121.92	1.8286	2.344
35.50	1531.5	1174.9	121.91	1.8169	2.345
36.00	1531.8	1175.2	121.89	1.8056	2.347
36.50	1532.2	1175.6	121.88	1.7945	2.348
37.00	1532.5	1175.9	121.86	1.7838	2.349
37.50	1532.9	1176.3	121.84	1.7733	2.350
38.00	1533.2	1176.6	121.84	1.7632	2.351
38.50	1533.6	1177.0	121.82	1.7532	2.352
39.00	1533.9	1177.3	121.79	1.7436	2.353
39.50	1534.2	1177.6	121.78	1.7342	2.354
40.00	1534.5	1177.9	121.77	1.7250	2.355
40.50	1534.8	1178.2	121.76	1.7160	2.356
41.00	1535.1	1178.5	121.75	1.7073	2.356
41.50	1535.4	1178.7	121.74	1.6988	2.357
42.00	1535.6	1179.0	121.72	1.6905	2.358
42.50	1535.9	1179.2	121.71	1.6824	2.359
43.00	1536.1	1179.5	121.70	1.6744	2.360
43.50	1536.4	1179.8	121.69	1.6667	2.360
44.00	1536.6	1180.0	121.68	1.6591	2.361
44.50	1536.8	1180.2	121.67	1.6517	2.362
45.00	1537.0	1180.4	121.66	1.6444	2.362

\*\*\*\*\* End Shut-in 1

\*\*\*\*\* Start Flow 2

0.00	370.6	0.0	121.63
0.50	375.4	4.8	121.59

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk#11857 DST#1 Bouziden #2 CMX, Inc.

ATE: 09/29/98

TIME: 06:56:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
1.00	379.4	8.8	121.54		
1.50	383.4	12.7	121.50		
2.00	387.6	17.0	121.47		
2.50	392.0	21.4	121.47		
3.00	396.7	26.1	121.48		
3.50	401.6	30.9	121.51		
4.00	406.1	35.4	121.56		
4.50	410.5	39.9	121.62		
5.00	415.2	44.6	121.69		
5.50	419.7	49.1	121.77		
6.00	424.1	53.4	121.86		
6.50	428.7	58.0	121.94		
7.00	432.8	62.2	122.02		
7.50	436.9	66.3	122.11		
8.00	440.9	70.3	122.18		
8.50	445.4	74.8	122.25		
9.00	449.4	78.7	122.32		
9.50	453.3	82.7	122.38		
10.00	457.4	86.8	122.42		
10.50	461.7	91.1	122.47		
11.00	465.7	95.0	122.51		
11.50	469.6	99.0	122.55		
12.00	473.8	103.2	122.58		
12.50	477.6	107.0	122.61		
13.00	481.4	110.8	122.64		
13.50	485.2	114.6	122.65		
14.00	489.3	118.7	122.67		
14.50	493.1	122.5	122.68		
15.00	496.9	126.3	122.70		
15.50	500.7	130.1	122.72		
16.00	504.8	134.2	122.74		
16.50	508.4	137.8	122.75		
17.00	512.0	141.4	122.77		
17.50	515.6	145.0	122.78		
18.00	519.8	149.2	122.80		
18.50	523.4	152.8	122.81		
19.00	527.1	156.4	122.82		
19.50	530.6	160.0	122.83		
20.00	534.4	163.7	122.85		
20.50	537.7	167.0	122.86		
21.00	541.2	170.6	122.86		
21.50	544.6	174.0	122.87		
22.00	548.7	178.1	122.88		
22.50	552.3	181.7	122.89		
23.00	555.8	185.2	122.92		
23.50	559.3	188.7	122.91		
24.00	563.3	192.7	122.92		
24.50	566.7	196.1	122.92		
25.00	570.1	199.5	122.92		
25.50	573.6	203.0	122.92		
26.00	577.0	206.4	122.92		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11857 DST#1 Bouziden #2 CMX, Inc.

DATE: 09/29/98

TIME: 06:56:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
26.50	580.9	210.3	122.93		
27.00	584.4	213.8	122.93		
27.50	587.9	217.2	122.93		
28.00	591.3	220.7	122.94		
28.50	595.1	224.5	122.94		
29.00	598.3	227.7	122.96		
29.50	601.7	231.0	122.96		
30.00	604.9	234.3	122.98		
30.50	608.2	237.5	122.97		
31.00	611.7	241.1	122.98		
31.50	614.9	244.2	122.98		
32.00	618.1	247.4	122.99		
32.50	621.1	250.5	122.98		
33.00	624.5	253.9	122.99		
33.50	627.9	257.2	122.99		
34.00	631.1	260.5	122.99		
34.50	634.2	263.6	122.99		
35.00	637.4	266.8	123.00		
35.50	640.9	270.3	123.00		
36.00	644.1	273.5	123.00		
36.50	647.3	276.6	123.01		
37.00	650.4	279.8	122.99		
37.50	653.5	282.9	122.99		
38.00	656.9	286.3	122.99		
38.50	659.9	289.3	122.99		
39.00	662.9	292.3	123.00		
39.50	665.9	295.3	123.00		
40.00	668.9	298.2	123.00		
40.50	672.2	301.6	122.99		
41.00	675.1	304.5	123.00		
41.50	678.1	307.4	123.00		
42.00	681.0	310.3	123.00		
42.50	683.9	313.3	123.00		
43.00	687.3	316.7	123.00		
43.50	690.2	319.6	123.00		
44.00	693.2	322.6	123.00		

\*\*\*\*\* End Flow 2

\*\*\*\*\* Start Shutin 2

0.00	693.2	0.0	123.00	0.0000	0.481
0.50	1301.5	608.3	123.00	147.0000	1.694
1.00	1420.8	727.6	123.03	74.0000	2.019
1.50	1442.2	749.0	123.06	49.6667	2.080
2.00	1452.8	759.6	123.09	37.5000	2.111
2.50	1459.9	766.7	123.11	30.2000	2.131
3.00	1465.4	772.2	123.14	25.3333	2.147
3.50	1469.9	776.7	123.17	21.8571	2.160
4.00	1473.7	780.5	123.19	19.2500	2.172
4.50	1477.0	783.8	123.22	17.2222	2.182
5.00	1480.0	786.8	123.24	15.6000	2.190
5.50	1482.6	789.5	123.27	14.2727	2.198
6.00	1485.0	791.9	123.28	13.1667	2.205
6.50	1487.3	794.1	123.29	12.2308	2.212
7.00	1489.4	796.3	123.30	11.4286	2.218

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk#11857 DST#1 Bouziden #2 CMX, Inc.

DATE: 09/29/98

TIME: 06:56:33

Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
7.50	1491.4	798.2	123.32	10.7333	2.224	
8.00	1493.2	800.0	123.33	10.1250	2.230	
8.50	1494.9	801.7	123.35	9.5882	2.235	
9.00	1496.5	803.3	123.35	9.1111	2.240	
9.50	1498.0	804.8	123.37	8.6842	2.244	
10.00	1499.3	806.1	123.37	8.3000	2.248	
10.50	1500.5	807.3	123.38	7.9524	2.252	
11.00	1501.7	808.5	123.38	7.6364	2.255	
11.50	1502.7	809.5	123.39	7.3478	2.258	
12.00	1503.8	810.6	123.39	7.0833	2.261	
12.50	1504.8	811.6	123.39	6.8400	2.264	
13.00	1505.7	812.5	123.38	6.6154	2.267	
13.50	1506.6	813.4	123.37	6.4074	2.270	
14.00	1507.4	814.2	123.37	6.2143	2.272	
14.50	1508.2	815.0	123.36	6.0345	2.275	
15.00	1509.1	815.9	123.35	5.8667	2.277	
15.50	1509.8	816.7	123.35	5.7097	2.280	
16.00	1510.6	817.4	123.34	5.5625	2.282	
16.50	1511.3	818.2	123.32	5.4242	2.284	
17.00	1512.1	818.9	123.31	5.2941	2.286	
17.50	1512.7	819.6	123.29	5.1714	2.288	
18.00	1513.4	820.2	123.28	5.0556	2.290	
18.50	1514.1	820.9	123.27	4.9459	2.292	
19.00	1514.7	821.5	123.26	4.8421	2.294	
19.50	1515.3	822.1	123.25	4.7436	2.296	
20.00	1515.9	822.7	123.23	4.6500	2.298	
20.50	1516.5	823.3	123.22	4.5610	2.300	
21.00	1517.1	823.9	123.20	4.4762	2.301	
21.50	1517.6	824.4	123.19	4.3953	2.303	
22.00	1518.1	824.9	123.18	4.3182	2.305	
22.50	1518.6	825.4	123.17	4.2444	2.306	
23.00	1519.2	826.0	123.15	4.1739	2.308	
23.50	1519.7	826.5	123.13	4.1064	2.309	
24.00	1520.2	827.0	123.12	4.0417	2.311	
24.50	1520.7	827.5	123.10	3.9796	2.312	
25.00	1521.1	827.9	123.10	3.9200	2.314	
25.50	1521.6	828.4	123.08	3.8627	2.315	
26.00	1522.0	828.8	123.07	3.8077	2.317	
26.50	1522.5	829.3	123.06	3.7547	2.318	
27.00	1522.9	829.7	123.05	3.7037	2.319	
27.50	1523.3	830.1	123.04	3.6545	2.320	
28.00	1523.6	830.4	123.03	3.6071	2.321	
28.50	1524.0	830.8	123.01	3.5614	2.323	
29.00	1524.4	831.2	123.00	3.5172	2.324	
29.50	1524.8	831.6	122.99	3.4746	2.325	
30.00	1525.2	832.0	122.98	3.4333	2.326	
30.50	1525.5	832.3	122.96	3.3934	2.327	
31.00	1525.9	832.7	122.95	3.3548	2.328	
31.50	1526.2	833.0	122.94	3.3175	2.329	
32.00	1526.5	833.4	122.92	3.2812	2.330	
32.50	1526.8	833.6	122.91	3.2462	2.331	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11857 DST#1 Bouziden #2 CMX, Inc.

DATE: 09/29/98

TIME: 06:56:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
33.00	1527.2	834.0	122.90	3.2121	2.332
33.50	1527.5	834.4	122.89	3.1791	2.333
34.00	1527.8	834.7	122.88	3.1471	2.334
34.50	1528.2	835.0	122.87	3.1159	2.335
35.00	1528.4	835.2	122.86	3.0857	2.336
35.50	1528.7	835.6	122.85	3.0563	2.337
36.00	1529.0	835.8	122.84	3.0278	2.338
36.50	1529.3	836.1	122.83	3.0000	2.339
37.00	1529.6	836.4	122.82	2.9730	2.340
37.50	1529.9	836.7	122.81	2.9467	2.341
38.00	1530.1	837.0	122.80	2.9211	2.341
38.50	1530.4	837.2	122.80	2.8961	2.342
39.00	1530.6	837.5	122.79	2.8718	2.343
39.50	1530.9	837.7	122.77	2.8481	2.344
40.00	1531.2	838.0	122.75	2.8250	2.344
40.50	1531.4	838.2	122.73	2.8025	2.345
41.00	1531.6	838.4	122.74	2.7805	2.346
41.50	1531.9	838.7	122.73	2.7590	2.347
42.00	1532.1	838.9	122.71	2.7381	2.347
42.50	1532.3	839.2	122.71	2.7176	2.348
43.00	1532.6	839.4	122.71	2.6977	2.349
43.50	1532.8	839.6	122.70	2.6782	2.350
44.00	1533.0	839.8	122.69	2.6591	2.350
44.50	1533.1	840.0	122.68	2.6404	2.351
45.00	1533.3	840.2	122.67	2.6222	2.351
45.50	1533.5	840.4	122.67	2.6044	2.352
46.00	1533.8	840.6	122.66	2.5870	2.352
46.50	1533.9	840.7	122.65	2.5699	2.353
47.00	1534.1	840.9	122.64	2.5532	2.353
47.50	1534.3	841.1	122.62	2.5368	2.354
48.00	1534.5	841.3	122.61	2.5208	2.355
48.50	1534.7	841.5	122.61	2.5052	2.355
49.00	1534.9	841.7	122.60	2.4898	2.356
49.50	1535.1	841.9	122.59	2.4747	2.356
50.00	1535.3	842.1	122.58	2.4600	2.357
50.50	1535.4	842.2	122.57	2.4455	2.357
51.00	1535.6	842.4	122.56	2.4314	2.358
51.50	1535.7	842.5	122.55	2.4175	2.358
52.00	1535.9	842.7	122.55	2.4038	2.359
52.50	1536.0	842.8	122.53	2.3905	2.359
53.00	1536.2	843.0	122.53	2.3774	2.360
53.50	1536.4	843.2	122.52	2.3645	2.360
54.00	1536.6	843.4	122.51	2.3519	2.361
54.50	1536.7	843.5	122.50	2.3394	2.361
55.00	1536.9	843.7	122.49	2.3273	2.362
55.50	1537.0	843.8	122.49	2.3153	2.362
56.00	1537.2	844.0	122.48	2.3036	2.363
56.50	1537.3	844.1	122.47	2.2920	2.363
57.00	1537.5	844.3	122.46	2.2807	2.364
57.50	1537.6	844.4	122.46	2.2696	2.364
58.00	1537.7	844.5	122.44	2.2586	2.365

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk#11857 DST#1 Bouziden #2 CMX, Inc.

ATE: 09/29/98 TIME: 06:56:33

	Time	Pressure	delta P	Temp.	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
		PSIg	PSIg	DEG F		
	58.50	1537.8	844.6	122.44	2.2479	2.365
	59.00	1538.0	844.8	122.43	2.2373	2.365
	59.50	1538.1	844.9	122.42	2.2269	2.366
	60.00	1538.3	845.1	122.42	2.2167	2.366
	60.50	1538.4	845.2	122.41	2.2066	2.367
**** End Shut-in 2	61.00	1538.6	845.4	122.40	2.1967	2.367
**** Final Hydro.	309.50	1944.9	0.0	121.83		

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11857

Well Name & No. <u>Bouziden #2</u>		Test No. <u>#1</u>	Date <u>9/29/98</u>
Company <u>CMV, Inc.</u>		Zone Tested <u>Kansas City</u>	
Address <u>150 N Main Suite 1026 Wichita, KS 67202</u>		Elevation <u>1685</u>	KB <u>1676</u> GL
Co. Rep/Geo. <u>Doug McGinness</u> Cont. <u>Duke #4</u>		Est. Ft. of Pay	Por. %
Location: Sec. <u>13</u>	Twp. <u>34S</u>	Rge. <u>14W</u>	Co. <u>Barber</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N)	Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested <u>4130 - 4150</u>	Initial Str Wt/Lbs. <u>48,000</u>	Unseated Str Wt/Lbs. <u>58,000</u>
Anchor Length <u>20'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>4125'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4130</u>	Hole Size — <u>7 7/8"</u> ✓	Rubber Size — <u>6 3/4"</u> ✓
Total Depth <u>4150</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>N/A</u>
Mud Wt. <u>9.0</u> LCM <u>6</u> Vis. <u>48</u> WL <u>10.5</u>	Drill Pipe Size <u>4 1/2 X 1 1/2</u>	Ft. Run <u>4107</u>

Blow Description: IF: Fair blow built to D.O.B. in 4 1/2 mins.  
ISI: Blud down for 5 mins.  
FF: Fair blow b.o.b. in 5 mins.  
FSI: Blud down for 5 mins.

Recovery — Total Feet <u>1470</u>	GIP <u>N/A</u>	Ft. in DC <u>N/A</u>	Ft. in DP <u>1470</u>
Rec. <u>120</u> Feet Of <u>SWCM</u>	%gas	%oil <u>70</u>	%water <u>30</u> %mud
Rec. <u>1350</u> Feet Of <u>Salt Water</u>	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud

BHT 123° °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 04 @ 105° °F Chlorides 140,000 ppm Recovery Chlorides 4,600 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2018</u>	<u>2014</u>	<u>2357</u>	<u>06:00</u>
(B) First Initial Flow Pressure	<u>91</u>	<u>52</u>	(depth) <u>4136'</u>	T-Started <u>06:54:00</u>
(C) First Final Flow Pressure	<u>354</u>	<u>357</u>	PSI Recorder No. <u>10332</u>	T-Open <u>09:04:00</u>
(D) Initial Shut-In Pressure	<u>1529</u>	<u>1537</u>	PSI (depth) <u>4147</u>	T-Pulled <u>12:04:00</u>
(E) Second Initial Flow Pressure	<u>395</u>	<u>371</u>	PSI Recorder No. _____	T-Out <u>12:10:00</u>
(F) Second Final Flow Pressure	<u>689</u>	<u>693</u>	PSI (depth) _____	T-Off Location <u>15:30</u>
(G) Final Shut-in Pressure	<u>1529</u>	<u>1539</u>	PSI Initial Opening <u>30</u>	Test <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2008</u>	<u>1945</u>	PSI Initial Shut-in <u>45</u>	Jars <u>✓</u>
			Final Flow <u>45</u>	Safety Joint <u>✓</u>
			Final Shut-in <u>60</u>	Straddle _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]

Circ. Sub \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Elec. Rec. ✓  
 Mileage \_\_\_\_\_  
 Other \_\_\_\_\_



TRILOBITE TESTING L.L.C.

OPERATOR : CMX, Inc.

DATE 09/30/199

WELL NAME: Bouziden

KB 1685.00 ft

TICKET NO: 11858

DST #2

LOCATION : 13-34s-14w Barber co. KS

GR 1676.00 ft

FORMATION: Swope

INTERVAL : 4530.00 To 4545.00 ft

TD 4545.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	2357		i	PF Fr. 2033 to 2103 hr
SI 45 Range (Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 2103 to 2148 hr
SF 45 Clock (hrs)	12hr.	12hr.	elec.			SF Fr. 2148 to 2333 hr
FS 60 Depth (ft )	4542.0	4542.0	4526.0	0.0	0.0	FS Fr. 2233 to 2333 hr

	Field	1	2	3	4	
A. Init Hydro	2188.0	2224.0	2201.0	0.0	0.0	T STARTED 1852 hr
B. First Flow	81.0	60.0	34.0	0.0	0.0	T ON BOTM 2030 hr
B1. Final Flow	81.0	60.0	40.0	0.0	0.0	T OPEN 2033 hr
C. In Shut-in	1569.0	1612.0	1506.0	0.0	0.0	T PULLED 2333 hr
D. Init Flow	91.0	74.0	52.0	0.0	0.0	T OUT 0210 hr
E. Final Flow	111.0	97.0	83.0	0.0	0.0	
F. Fl Shut-in	1580.0	1561.0	1566.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2268.0	2261.0	2185.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 54000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 52000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 4507.00 ft

RECOVERY

Tot Fluid 170.00 ft of 0.00 ft in DC and 170.00 ft in DP  
 50.00 ft of Gas cut muddy water 24%gas 22%water 54%mud  
 120.00 ft of Salt water  
 4337.00 ft of Gas in pipe  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

SALINITY 85000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Strong blow bottom of bucket in  
 10 secs. Gas to surface in 9 mins.  
 Initial Shut-in:  
 Bled down for 5 ins. built back to  
 1/2" in water  
 Final Flow:  
 Strong blow bottom of bucket in  
 10 secs. gauge gas  
 Final Shut-in:  
 Bled down for 10 mins. built back  
 to 1" in water

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	58.00 S/L
W.L.	12.80 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Doug McGinness
Contr.	Duke
Rig #	4
Unit #	no
Pump T.	none

Test Successful: Y

GAS RECOVERY  
-----

COMPANY: CMX, Inc. DATE: 09/30/199  
 WELL NAME: Bouziden KB Elev: 1685.00 ft TICKET #11858 DST #2  
 WELL LOCATION: 13-34s-14w Barber co. KS GR Elev: 1676.00 ft FORMATION: Swope  
 INTERVAL Fr.: 4530.00 To 4545.00 T.D.: 4545.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.choke

\*\*\*\* GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.25	0	44	11100.0
15	0.25	0	44	11100.0
20	0.25	0	35	9950.0
25	0.25	0	24	8220.0
30	0.25	0	20	7510.0

\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.25	3	0	15700.0
10	0.25	4	0	19500.0
15	0.25	5	0	20700.0
20	0.25	5	0	20700.0
25	0.25	5	0	20700.0
30	0.25	5	0	20700.0
35	0.25	5	0	20700.0
40	0.25	5	0	20700.0
45	0.25	5	0	20700.0

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Bouziden

LOCATION : 13-34s-14w Barber co. KS

TICKET No. 11858 D.S.T. No. 2 DATE 09/30/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 15

TOTAL TOOL ..... 43

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands73 Single 1 Total 4507

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4550

TOTAL DEPTH ..... 4545

TOTAL DRILL PIPE ABOVE K.B. .... 5

REMARKS:

P.O. SUB Top of tool @	4503
C.O. SUB	4504
S.I. TOOL	4509
HMV	4514
JARS	4519
SAFETY JOINT	4521
PACKER	4525
PACKER	4530
DEPTH 4530	
STUBB 1'to	4531
ANCHOR 12' of perfs to	4543
Alpine rec.@4536	
T.C. DEPTH	
	4543
Ak-1 rec.@4542	
BULLNOSE 2' bullnose to	4545
T.D.	

# TEST HISTORY

Tk#11858 DST#2 Bouziden #2 CMX, Inc.

## Flag Points

	t (Min.)	P (PSIg)
A:	0.00	2201.44
B:	0.00	34.45
C:	28.00	39.86
D:	44.50	1585.54
E:	0.00	52.00
F:	43.00	83.06
G:	62.50	1566.15
Q:	0.00	2184.98

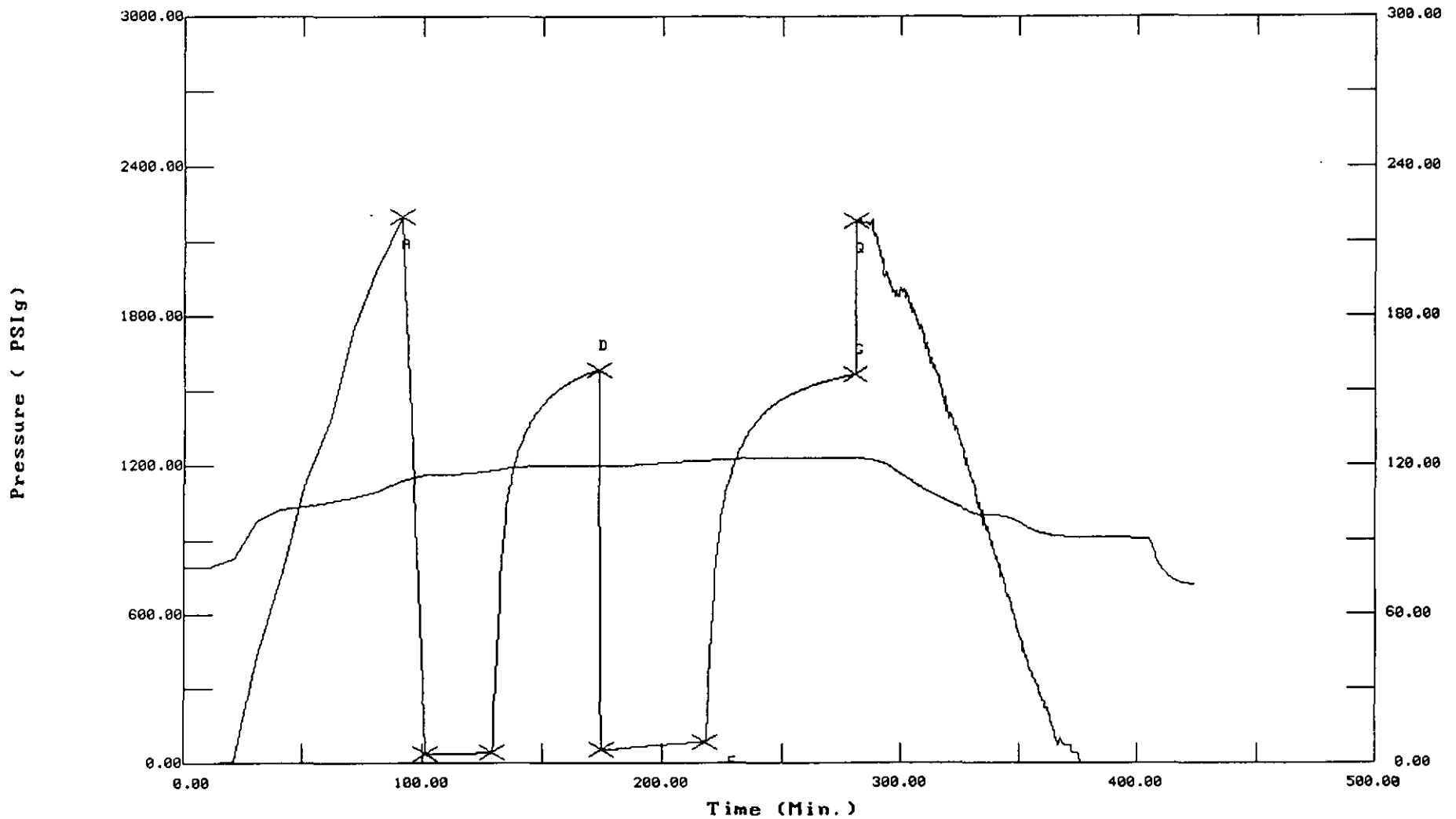


CHART PAGE

10332  
DST#  
2



This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk#11858 DST#2 Bouziden #2 CMX, Inc.

ATE: 09/30/98 TIME: 18:53:50

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
**** Initial Hydro.	91.00	2201.4	0.0	113.72		
**** Start Flow 1	0.00	34.5	0.0	116.22		
	5.50	33.6	-0.9	116.48		
	6.00	33.5	-0.9	116.49		
	6.50	33.6	-0.8	116.49		
	7.00	33.7	-0.7	116.51		
	7.50	33.8	-0.6	116.50		
	8.00	33.9	-0.5	116.51		
	8.50	34.0	-0.5	116.52		
	9.00	34.1	-0.4	116.51		
	9.50	34.2	-0.3	116.51		
	10.00	34.2	-0.3	116.51		
	10.50	34.3	-0.2	116.52		
	11.00	34.3	-0.2	116.52		
	11.50	34.4	-0.1	116.53		
	12.00	34.5	0.0	116.54		
	12.50	34.5	0.0	116.56		
	13.00	34.6	0.1	116.57		
	13.50	34.6	0.2	116.59		
	14.00	34.7	0.3	116.61		
	14.50	34.8	0.3	116.64		
	15.00	34.9	0.4	116.65		
	15.50	34.9	0.5	116.69		
	16.00	35.0	0.6	116.73		
	16.50	35.1	0.7	116.76		
	17.00	35.2	0.7	116.80		
	17.50	35.3	0.9	116.84		
	18.00	35.5	1.0	116.88		
	18.50	35.5	1.1	116.93		
	19.00	35.7	1.2	116.98		
	19.50	35.8	1.4	117.01		
	20.00	36.0	1.6	117.07		
	20.50	36.2	1.7	117.13		
	21.00	36.3	1.9	117.17		
	21.50	36.6	2.1	117.22		
	22.00	36.8	2.3	117.28		
	22.50	37.0	2.5	117.33		
	23.00	37.2	2.7	117.38		
	23.50	37.4	2.9	117.44		
	24.00	37.6	3.1	117.50		
	24.50	37.9	3.5	117.54		
	25.00	38.2	3.7	117.61		
	25.50	38.4	3.9	117.66		
	26.00	38.7	4.3	117.72		
	26.50	39.0	4.5	117.77		
	27.00	39.2	4.8	117.84		
	27.50	39.6	5.1	117.90		
***** End Flow 1	28.00	39.9	5.4	117.96		
***** Start Shutin 1	0.00	39.9	0.0	117.96	0.0000	0.002
	0.50	89.3	49.5	118.02	57.0000	0.008
	1.00	215.7	175.8	118.09	29.0000	0.047

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11858 DST#2 Bouziden #2 CMX, Inc.

DATE: 09/30/98

TIME: 18:53:50

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
1.50	337.3	297.5	118.17	19.6667	0.114
2.00	450.2	410.4	118.26	15.0000	0.203
2.50	556.6	516.7	118.35	12.2000	0.310
3.00	652.9	613.0	118.44	10.3333	0.426
3.50	739.0	699.1	118.54	9.0000	0.546
4.00	815.4	775.6	118.62	8.0000	0.665
4.50	882.4	842.6	118.71	7.2222	0.779
5.00	940.6	900.7	118.80	6.6000	0.885
5.50	991.0	951.1	118.89	6.0909	0.982
6.00	1034.5	994.6	118.96	5.6667	1.070
6.50	1072.3	1032.5	119.03	5.3077	1.150
7.00	1105.2	1065.3	119.09	5.0000	1.221
7.50	1134.0	1094.1	119.15	4.7333	1.286
8.00	1159.4	1119.5	119.21	4.5000	1.344
8.50	1182.1	1142.3	119.26	4.2941	1.397
9.00	1202.7	1162.8	119.29	4.1111	1.446
9.50	1221.7	1181.8	119.34	3.9474	1.493
10.00	1239.0	1199.2	119.39	3.8000	1.535
10.50	1255.1	1215.2	119.41	3.6667	1.575
11.00	1269.7	1229.9	119.43	3.5455	1.612
11.50	1283.2	1243.4	119.47	3.4348	1.647
12.00	1296.2	1256.3	119.49	3.3333	1.680
12.50	1308.6	1268.7	119.51	3.2400	1.712
13.00	1320.4	1280.5	119.55	3.1538	1.743
13.50	1331.6	1291.8	119.58	3.0741	1.773
14.00	1342.2	1302.4	119.60	3.0000	1.802
14.50	1352.3	1312.5	119.63	2.9310	1.829
15.00	1361.8	1322.0	119.65	2.8667	1.855
15.50	1370.9	1331.0	119.68	2.8065	1.879
16.00	1379.5	1339.6	119.70	2.7500	1.903
16.50	1387.6	1347.8	119.73	2.6970	1.926
17.00	1395.4	1355.6	119.75	2.6471	1.947
17.50	1402.8	1363.0	119.77	2.6000	1.968
18.00	1409.9	1370.0	119.79	2.5556	1.988
18.50	1416.7	1376.8	119.80	2.5135	2.007
19.00	1423.1	1383.2	119.82	2.4737	2.025
19.50	1429.4	1389.5	119.96	2.4359	2.043
20.00	1435.4	1395.5	119.83	2.4000	2.060
20.50	1441.2	1401.4	119.85	2.3659	2.077
21.00	1446.9	1407.1	119.86	2.3333	2.094
21.50	1452.4	1412.6	119.87	2.3023	2.110
22.00	1457.8	1417.9	119.88	2.2727	2.125
22.50	1462.9	1423.1	119.88	2.2444	2.140
23.00	1467.9	1428.1	119.89	2.2174	2.155
23.50	1472.7	1432.8	119.89	2.1915	2.169
24.00	1477.4	1437.6	119.90	2.1667	2.183
24.50	1481.9	1442.1	119.90	2.1429	2.196
25.00	1486.3	1446.4	119.92	2.1200	2.209
25.50	1490.5	1450.7	119.92	2.0980	2.222
26.00	1494.6	1454.7	119.92	2.0769	2.234
26.50	1498.6	1458.7	119.92	2.0566	2.246

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk#11858 DST#2 Bouziden #2 CMX, Inc.

DATE: 09/30/98

TIME: 18:53:50

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
27.00	1502.4	1462.5	119.93	2.0370	2.257
27.50	1506.2	1466.3	119.94	2.0182	2.269
28.00	1509.8	1469.9	119.94	2.0000	2.279
28.50	1513.2	1473.4	119.94	1.9825	2.290
29.00	1516.6	1476.7	119.95	1.9655	2.300
29.50	1519.8	1480.0	119.96	1.9492	2.310
30.00	1523.0	1483.2	119.95	1.9333	2.320
30.50	1526.1	1486.2	119.96	1.9180	2.329
31.00	1529.1	1489.2	119.96	1.9032	2.338
31.50	1531.9	1492.1	119.98	1.8889	2.347
32.00	1534.8	1494.9	119.96	1.8750	2.356
32.50	1537.5	1497.6	119.97	1.8615	2.364
33.00	1540.1	1500.2	119.96	1.8485	2.372
33.50	1542.6	1502.8	119.97	1.8358	2.380
34.00	1545.1	1505.3	119.97	1.8235	2.387
34.50	1547.6	1507.7	119.97	1.8116	2.395
35.00	1550.0	1510.1	119.97	1.8000	2.402
35.50	1552.2	1512.3	119.97	1.7887	2.409
36.00	1554.4	1514.5	119.98	1.7778	2.416
36.50	1556.6	1516.7	119.98	1.7671	2.423
37.00	1558.7	1518.8	119.97	1.7568	2.430
37.50	1560.8	1520.9	119.98	1.7467	2.436
38.00	1562.8	1523.0	119.98	1.7368	2.442
38.50	1564.9	1525.0	119.98	1.7273	2.449
39.00	1566.9	1527.0	119.98	1.7179	2.455
39.50	1568.8	1528.9	119.98	1.7089	2.461
40.00	1570.6	1530.8	119.98	1.7000	2.467
40.50	1572.5	1532.6	119.99	1.6914	2.473
41.00	1574.3	1534.4	119.98	1.6829	2.478
41.50	1576.0	1536.2	119.99	1.6747	2.484
42.00	1577.7	1537.9	119.99	1.6667	2.489
42.50	1579.4	1539.6	120.00	1.6588	2.495
43.00	1581.0	1541.2	119.99	1.6512	2.500
43.50	1582.6	1542.8	120.00	1.6437	2.505
44.00	1584.2	1544.3	120.00	1.6364	2.510
44.50	1585.5	1545.7	120.00	1.6292	2.514
***** End Shut-in 1					
***** Start Flow 2					
0.00	52.8	0.0	119.90		
0.50	51.9	-0.9	119.86		
1.00	52.1	-0.7	119.82		
1.50	52.4	-0.4	119.78		
2.00	52.7	-0.1	119.76		
2.50	52.9	0.1	119.74		
3.00	53.0	0.2	119.72		
3.50	53.2	0.4	119.71		
4.00	53.4	0.6	119.71		
4.50	53.7	0.9	119.72		
5.00	53.9	1.1	119.72		
5.50	54.1	1.3	119.73		
6.00	54.4	1.6	119.75		
6.50	54.6	1.8	119.78		
7.00	55.1	2.3	119.80		



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11858 DST#2 Bouziden #2 CMX, Inc.

DATE: 09/30/98

TIME: 18:53:50

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
7.50	55.5	2.7	119.82		
8.00	56.2	3.4	119.84		
8.50	56.6	3.8	119.87		
9.00	57.2	4.4	119.90		
9.50	57.6	4.8	119.93		
10.00	58.2	5.4	119.97		
10.50	58.7	5.9	120.00		
11.00	59.2	6.4	120.03		
11.50	59.7	6.9	120.07		
12.00	60.2	7.4	120.11		
12.50	60.7	8.0	120.15		
13.00	61.1	8.3	120.19		
13.50	61.5	8.8	120.22		
14.00	62.0	9.2	120.26		
14.50	62.6	9.8	120.29		
15.00	63.2	10.4	120.33		
15.50	63.4	10.6	120.36		
16.00	63.9	11.1	120.40		
16.50	64.3	11.5	120.43		
17.00	64.6	11.8	120.47		
17.50	65.1	12.3	120.51		
18.00	65.5	12.7	120.64		
18.50	66.0	13.2	120.60		
19.00	66.4	13.6	120.56		
19.50	66.8	14.0	120.53		
20.00	67.2	14.4	120.50		
20.50	67.8	15.0	120.68		
21.00	68.1	15.3	120.71		
21.50	68.5	15.7	120.75		
22.00	68.9	16.1	120.78		
22.50	69.2	16.4	120.81		
23.00	69.6	16.8	120.84		
23.50	70.0	17.2	120.87		
24.00	70.4	17.6	120.90		
24.50	70.8	18.0	120.93		
25.00	71.0	18.2	120.96		
25.50	71.5	18.7	120.98		
26.00	71.9	19.1	121.01		
26.50	72.2	19.4	121.04		
27.00	72.6	19.8	121.08		
27.50	72.9	20.1	121.11		
28.00	73.3	20.5	121.13		
28.50	73.7	20.9	121.17		
29.00	74.0	21.2	121.19		
29.50	74.3	21.5	121.23		
30.00	74.6	21.8	121.26		
30.50	75.0	22.2	121.28		
31.00	75.2	22.5	121.31		
31.50	75.5	22.8	121.33		
32.00	75.9	23.1	121.35		
32.50	76.3	23.5	121.38		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11858 DST#2 Bouziden #2 CMX, Inc.

DATE: 09/30/98 TIME: 18:53:50

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	33.00	76.8	24.0	121.41		
	33.50	77.0	24.2	121.43		
	34.00	77.3	24.5	121.46		
	34.50	77.5	24.8	121.48		
	35.00	78.2	25.4	121.50		
	35.50	78.3	25.5	121.53		
	36.00	78.7	25.9	121.56		
	36.50	79.0	26.2	121.58		
	37.00	79.2	26.4	121.61		
	37.50	79.5	26.7	121.63		
	38.00	79.8	27.0	121.66		
	38.50	80.2	27.4	121.68		
	39.00	80.6	27.8	121.70		
	39.50	80.8	28.0	121.73		
	40.00	81.1	28.3	121.76		
	40.50	81.6	28.8	121.78		
	41.00	81.7	28.9	121.80		
	41.50	82.1	29.3	121.82		
	42.00	82.4	29.6	121.85		
	42.50	82.7	29.9	121.87		
***** End Flow 2	43.00	83.1	30.3	121.89		
***** Start Shutin 2	0.00	83.1	0.0	121.89	0.0000	0.007
	0.50	99.6	16.5	121.91	143.0000	0.01
	1.00	218.5	135.5	121.94	72.0000	0.048
	1.50	329.6	246.6	121.96	48.3333	0.109
	2.00	433.4	350.3	122.00	36.5000	0.188
	2.50	528.4	445.3	122.04	29.4000	0.279
	3.00	614.7	531.6	122.08	24.6667	0.378
	3.50	691.9	608.8	122.13	21.2857	0.479
	4.00	760.0	676.9	122.18	18.7500	0.578
	4.50	819.4	736.3	122.22	16.7778	0.671
	5.00	870.5	787.5	122.26	15.2000	0.758
	5.50	914.6	831.6	122.29	13.9091	0.837
	6.00	953.1	870.1	122.34	12.8333	0.908
	6.50	987.1	904.0	122.37	11.9231	0.974
	7.00	1017.5	934.5	122.41	11.1429	1.035
	7.50	1045.1	962.1	122.44	10.4667	1.092
	8.00	1070.2	987.2	122.47	9.8750	1.145
	8.50	1092.9	1009.9	122.49	9.3529	1.194
	9.00	1113.6	1030.5	122.51	8.8889	1.240
	9.50	1132.5	1049.4	122.53	8.4737	1.283
	10.00	1150.2	1067.1	122.54	8.1000	1.323
	10.50	1167.1	1084.0	122.56	7.7619	1.362
	11.00	1183.2	1100.1	122.58	7.4545	1.400
	11.50	1198.4	1115.3	122.59	7.1739	1.436
	12.00	1212.8	1129.7	122.60	6.9167	1.471
	12.50	1226.3	1143.2	122.60	6.6800	1.504
	13.00	1239.0	1156.0	122.60	6.4615	1.535
	13.50	1251.1	1168.0	122.63	6.2593	1.565
	14.00	1262.5	1179.4	122.62	6.0714	1.594
	14.50	1273.2	1190.2	122.64	5.8966	1.621

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11858 DST#2 Bouziden #2 CMX, Inc.

DATE: 09/30/98

TIME: 18:53:50

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
15.00	1283.4	1200.3	122.64	5.7333	1.647
15.50	1293.0	1209.9	122.65	5.5806	1.672
16.00	1302.1	1219.0	122.66	5.4375	1.695
16.50	1310.8	1227.7	122.66	5.3030	1.718
17.00	1319.0	1235.9	122.67	5.1765	1.740
17.50	1326.9	1243.9	122.68	5.0571	1.761
18.00	1334.6	1251.5	122.68	4.9444	1.781
18.50	1342.0	1259.0	122.69	4.8378	1.801
19.00	1349.2	1266.1	122.69	4.7368	1.820
19.50	1356.0	1273.0	122.70	4.6410	1.839
20.00	1362.7	1279.6	122.71	4.5500	1.857
20.50	1369.1	1286.0	122.72	4.4634	1.874
21.00	1375.3	1292.2	122.74	4.3810	1.891
21.50	1381.2	1298.1	122.75	4.3023	1.908
22.00	1386.9	1303.8	122.83	4.2273	1.923
22.50	1392.3	1309.2	122.77	4.1556	1.938
23.00	1397.6	1314.5	122.79	4.0870	1.953
23.50	1402.6	1319.6	122.80	4.0213	1.967
24.00	1407.6	1324.5	122.82	3.9583	1.981
24.50	1412.3	1329.2	122.83	3.8980	1.994
25.00	1416.8	1333.8	122.84	3.8400	2.007
25.50	1421.2	1338.1	122.85	3.7843	2.020
26.00	1425.4	1342.3	122.86	3.7308	2.032
26.50	1429.5	1346.4	122.87	3.6792	2.043
27.00	1433.4	1350.3	122.87	3.6296	2.055
27.50	1437.3	1354.2	122.88	3.5818	2.066
28.00	1441.0	1357.9	122.88	3.5357	2.076
28.50	1444.5	1361.5	122.89	3.4912	2.087
29.00	1448.0	1364.9	122.90	3.4483	2.097
29.50	1451.3	1368.2	122.89	3.4068	2.106
30.00	1454.6	1371.5	122.90	3.3667	2.116
30.50	1457.7	1374.6	122.90	3.3279	2.125
31.00	1460.8	1377.7	122.90	3.2903	2.134
31.50	1463.8	1380.7	122.89	3.2540	2.143
32.00	1466.6	1383.6	122.90	3.2188	2.151
32.50	1469.4	1386.4	122.90	3.1846	2.159
33.00	1472.2	1389.1	122.89	3.1515	2.167
33.50	1474.8	1391.8	122.89	3.1194	2.175
34.00	1477.5	1394.4	122.89	3.0882	2.183
34.50	1480.0	1396.9	122.89	3.0580	2.190
35.00	1482.5	1399.4	122.88	3.0286	2.198
35.50	1484.9	1401.8	122.89	3.0000	2.205
36.00	1487.2	1404.2	122.89	2.9722	2.212
36.50	1489.6	1406.6	122.88	2.9452	2.219
37.00	1491.9	1408.8	122.88	2.9189	2.226
37.50	1494.2	1411.1	122.89	2.8933	2.233
38.00	1496.4	1413.3	122.89	2.8684	2.239
38.50	1498.5	1415.4	122.89	2.8442	2.246
39.00	1500.6	1417.5	122.89	2.8205	2.252
39.50	1502.6	1419.6	122.89	2.7975	2.258
40.00	1504.6	1421.5	122.89	2.7750	2.264

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk#11858 DST#2 Bouziden #2 CMX, Inc.

ATE: 09/30/98 TIME: 18:53:50

	Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	40.50	1506.5	1423.4		122.90	2.7531	2.270
	41.00	1508.4	1425.4		122.89	2.7317	2.275
	41.50	1510.3	1427.2		122.90	2.7108	2.281
	42.00	1512.0	1429.0		122.91	2.6905	2.286
	42.50	1513.9	1430.8		122.91	2.6706	2.292
	43.00	1515.6	1432.5		122.90	2.6512	2.297
	43.50	1517.3	1434.2		122.90	2.6322	2.302
	44.00	1518.9	1435.9		122.91	2.6136	2.307
	44.50	1520.7	1437.6		122.91	2.5955	2.312
	45.00	1522.3	1439.2		122.91	2.5778	2.317
	45.50	1523.9	1440.9		122.92	2.5604	2.322
	46.00	1525.5	1442.5		122.92	2.5435	2.327
	46.50	1527.1	1444.0		122.92	2.5269	2.332
	47.00	1528.5	1445.5		122.93	2.5106	2.336
	47.50	1530.0	1447.0		122.93	2.4947	2.341
	48.00	1531.5	1448.4		122.92	2.4792	2.345
	48.50	1532.9	1449.9		122.93	2.4639	2.350
	49.00	1534.4	1451.3		122.93	2.4490	2.354
	49.50	1535.8	1452.7		122.93	2.4343	2.359
	50.00	1537.1	1454.0		122.93	2.4200	2.363
	50.50	1538.5	1455.5		122.94	2.4059	2.367
	51.00	1539.9	1456.8		122.94	2.3922	2.371
	51.50	1541.2	1458.2		122.94	2.3786	2.375
	52.00	1542.5	1459.5		122.94	2.3654	2.379
	52.50	1543.8	1460.7		122.95	2.3524	2.383
	53.00	1545.0	1462.0		122.95	2.3396	2.387
	53.50	1546.3	1463.2		122.95	2.3271	2.391
	54.00	1547.5	1464.4		122.96	2.3148	2.395
	54.50	1548.7	1465.7		122.97	2.3028	2.399
	55.00	1549.9	1466.9		122.96	2.2909	2.402
	55.50	1551.2	1468.1		122.97	2.2793	2.406
	56.00	1552.3	1469.2		122.98	2.2679	2.410
	56.50	1553.5	1470.4		122.98	2.2566	2.413
	57.00	1554.6	1471.5		122.99	2.2456	2.417
	57.50	1555.7	1472.6		123.00	2.2348	2.420
	58.00	1556.8	1473.7		123.00	2.2241	2.424
	58.50	1557.9	1474.8		123.02	2.2137	2.427
	59.00	1558.9	1475.9		123.00	2.2034	2.430
	59.50	1560.0	1477.0		123.00	2.1933	2.434
	60.00	1561.1	1478.1		123.01	2.1833	2.437
	60.50	1562.1	1479.1		123.02	2.1736	2.440
	61.00	1563.2	1480.1		123.02	2.1639	2.444
	61.50	1564.2	1481.1		123.03	2.1545	2.447
	62.00	1565.2	1482.1		123.03	2.1452	2.450
***** End Shut-in 2	62.50	1566.2	1483.1		123.04	2.1360	2.453
***** Final Hydro.	281.00	2185.0	0.0		123.05		



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11858

Well Name & No. <u>Bouziden #2</u>	Test No. <u>42</u>	Date <u>9/30/1998</u>
Company <u>CMX, Inc</u>	Zone Tested <u>Swapt</u>	
Address <u>150 N. Main, Suite 1026, Wichita, KS 67202</u>	Elevation <u>1685</u>	KB <u>1676</u> GL
Co. Rep / Geo. <u>Doug McGinness</u>	Cont. <u>DATE #4</u>	Est. Ft. of Pay <u>    </u> Por. <u>    </u> %
Location: Sec. <u>13</u>	Twp. <u>37S</u>	Rge. <u>14W</u> Co. <u>Barber</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>    </u>	Turnkey (Y, N) <u>    </u> Evaluation (Y, N) <u>    </u>

Interval Tested <u>4530' - 4545'</u>	Initial Str Wt/Lbs. <u>50,000</u>	Unseated Str Wt/Lbs. <u>52,000</u>
Anchor Length <u>15'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>54,000</u>
Top Packer Depth <u>4525'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4530'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4545'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>N/A</u>
Mud Wt. <u>9.0</u> LCM <u>0</u> Vis. <u>58</u> WL <u>12.8</u>	Drill Pipe Size <u>4 1/2 KH</u>	Ft. Run <u>4507</u>
Blow Description <u>IF: Strong blow b.o.b in 10 sec. BTS in 9 mins.</u> <u>ISI: Bled down for 5 mins Built back to 1/2" in H20.</u> <u>FF: Strong blow b.o.b in 10 sec. Gough Gas</u> <u>ESI: Bled down for 10 mins Built back to 1" in H20.</u>		
Recovery — Total Feet <u>170'</u>	GIP <u>4337</u>	Ft. in DC <u>N/A</u> Ft. in DP <u>170'</u>
Rec. <u>50</u> Feet Of <u>GCMW</u>	<u>24%</u> gas	<u>    </u> %oil <u>22</u> %water <u>54</u> %mud
Rec. <u>120</u> Feet Of <u>Salt Water</u>	<u>    </u> %gas	<u>100</u> %oil <u>    </u> %water <u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas	<u>    </u> %oil <u>    </u> %water <u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas	<u>    </u> %oil <u>    </u> %water <u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas	<u>    </u> %oil <u>    </u> %water <u>    </u> %mud
BHT <u>123</u> °F Gravity <u>    </u>	°API D@ <u>    </u>	°F Corrected Gravity <u>    </u> °API <u>    </u>
RW <u>.09</u> @ <u>70</u> °F Chlorides <u>85,000</u>	ppm Recovery Chlorides <u>9,600</u>	ppm System <u>    </u>

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2188</u>	<u>2201</u>		<u>2357</u>	<u>18:30:00</u>
(B) First Initial Flow Pressure	<u>81</u>	<u>34</u>		(depth) <u>4536'</u>	T-Started <u>18:52:00</u>
(C) First Final Flow Pressure	<u>81</u>	<u>40</u>		Recorder No. <u>10332</u>	T-Open <u>20:33:00</u>
(D) Initial Shut-In Pressure	<u>1569</u>	<u>1506</u>		(depth) <u>4542'</u>	T-Pulled <u>23:33:00</u>
(E) Second Initial Flow Pressure	<u>91</u>	<u>52</u>		Recorder No. <u>    </u>	T-Out <u>02:10:00</u>
(F) Second Final Flow Pressure	<u>111</u>	<u>83</u>		(depth) <u>    </u>	T-Off Location <u>03:00</u>
(G) Final Shut-in Pressure	<u>1580</u>	<u>1566</u>		Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/>
(Q) Final Hydrostatic Mud	<u>2268</u>	<u>2185</u>		Initial Shut-in <u>45</u>	Jars <input checked="" type="checkbox"/>
				Final Flow <u>45</u>	Safety Joint <input checked="" type="checkbox"/>
				Final Shut-in <u>60</u>	Straddle <u>    </u>
					Circ. Sub <u>    </u>
					Sampler <u>    </u>
					Extra Packer <u>    </u>
					Elec. Rec. <input checked="" type="checkbox"/>
					Mileage <u>    </u>
					Other <u>    </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]

TRILOBITE TESTING L.L.C.

OPERATOR : CMX, Inc. DATE 10/03/199  
 WELL NAME: Bouziden #2 KB 1685.00 ft TICKET NO: 11859 DST #3  
 LOCATION : 13-34s-14w Barber co. KS GR 1676.00 ft FORMATION: Viola  
 INTERVAL : 5180.00 To 5212.00 ft TD 5212.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10332	10332	2357			PF Fr. 1005 to 1035 hr
SI 30	Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1035 to 1105 hr
SF 30	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1105 to 1135 hr
FS 30	Depth(ft )	5209.0	5209.0	5186.0	0.0	0.0	FS Fr. 1135 to 0005 hr

	Field	1	2	3	4	
A. Init Hydro	2620.0	2603.0	2589.0	0.0	0.0	T STARTED 0759 hr
B. First Flow	30.0	48.0	18.0	0.0	0.0	T ON BOTM 1003 hr
B1. Final Flow	30.0	37.0	20.0	0.0	0.0	T OPEN 1005 hr
C. In Shut-in	51.0	61.0	44.0	0.0	0.0	T PULLED 0005 hr
D. Init Flow	30.0	37.0	21.0	0.0	0.0	T OUT 1348 hr
E. Final Flow	30.0	37.0	21.0	0.0	0.0	
F. Fl Shut-in	51.0	37.0	29.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2640.0	2628.0	2445.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 54000.00 lbs
						Unseated Str Wt 54000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5160.00 ft

RECOVERY

Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP  
 10.00 ft of drilling mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Weak blow built to 1/2" in water  
 Initial Shut-in:  
 Bled down for 5 mins  
 Final Flow:  
 No blow  
 Final Shut-in:  
 No blow back

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.10 lb/c  
 Vis. 55.00 S/L  
 W.L. 13.20 in3  
 F.C. 0.32 in  
 Mud Drop N  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 126.00 F  
 Hole Condition good  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00 n  
 Cushion Type none  
 Reversed Out N  
 Tool Chased N  
 Tester Darren Amerine  
 Co. Rep. Doug McGinness  
 Contr. Duke  
 Rig # 4  
 Unit # no  
 Pump T. none

SAMPLES:  
 SENT TO:

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Bouziden #2		P.O. SUB Top of tool @	5153
		C.O. SUB	5154
LOCATION : 13-34s-14w Barber co. KS		S.I. TOOL	5159
TICKET No. 11859 D.S.T. No. 3 DATE 10/03/199			
TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28		HMV	5164
INTERVAL TOOL .....			
TOTAL PACKERS AND ANCHOR ..... 32		JARS	5169
TOTAL TOOL ..... 60			
DRILL COLLAR ANCHOR IN INTERVAL .....			
C. ANCHOR STAND.Stands Single Total		SAFETY JOINT	5171
P. ANCHOR STAND.Stands Single Total		PACKER	5175
TOTAL ASSEMBLY .....		PACKER	5180
C. ABOVE TOOLS.Stands Single Total		DEPTH 5180	
P. ABOVE TOOLS.Stands 82 Single Total 5160		STUBB 1'to	5181
		ANCHOR 26'of perms.to	5207
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5220		Alpine rec.@ 5186	
TOTAL DEPTH ..... 5212			5207
TOTAL DRILL PIPE ABOVE K.B. .... 8			
REMARKS:		T.C. DEPTH	
			5207
		Ak-1 rec.@ 5209	
		BULLNOSE 5'bullnose to T.D.	5212



# TEST HISTORY

Tk#11859 DST#3 Bouziden #2 CMX, Inc.

## Flag Points

	t (Min.)	P (PSig)
A:	0.00	2589.33
B:	0.00	17.73
C:	30.00	20.88
D:	29.00	44.28
E:	0.00	20.51
F:	30.50	20.60
G:	32.00	28.64
Q:	0.00	2445.45

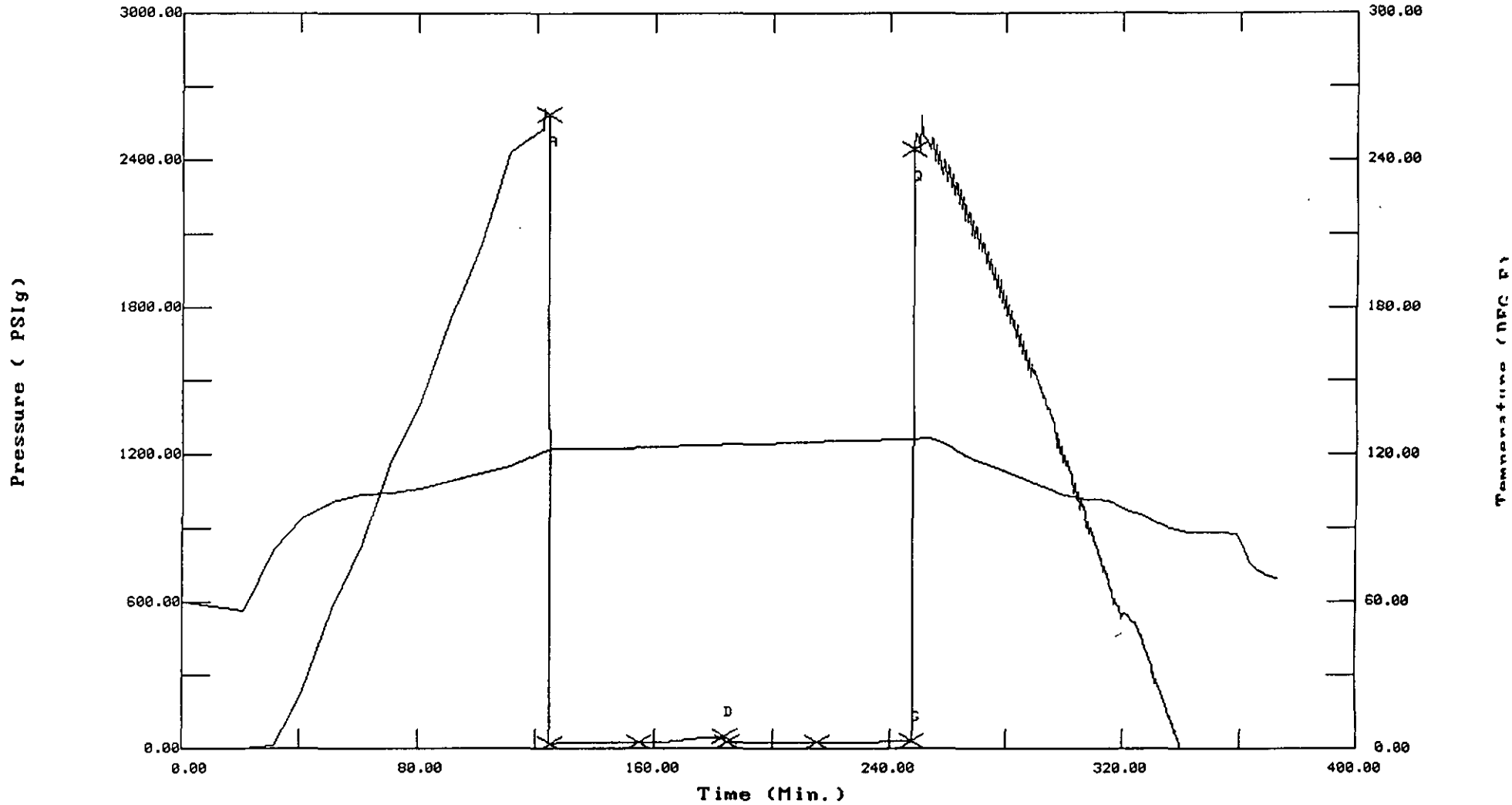
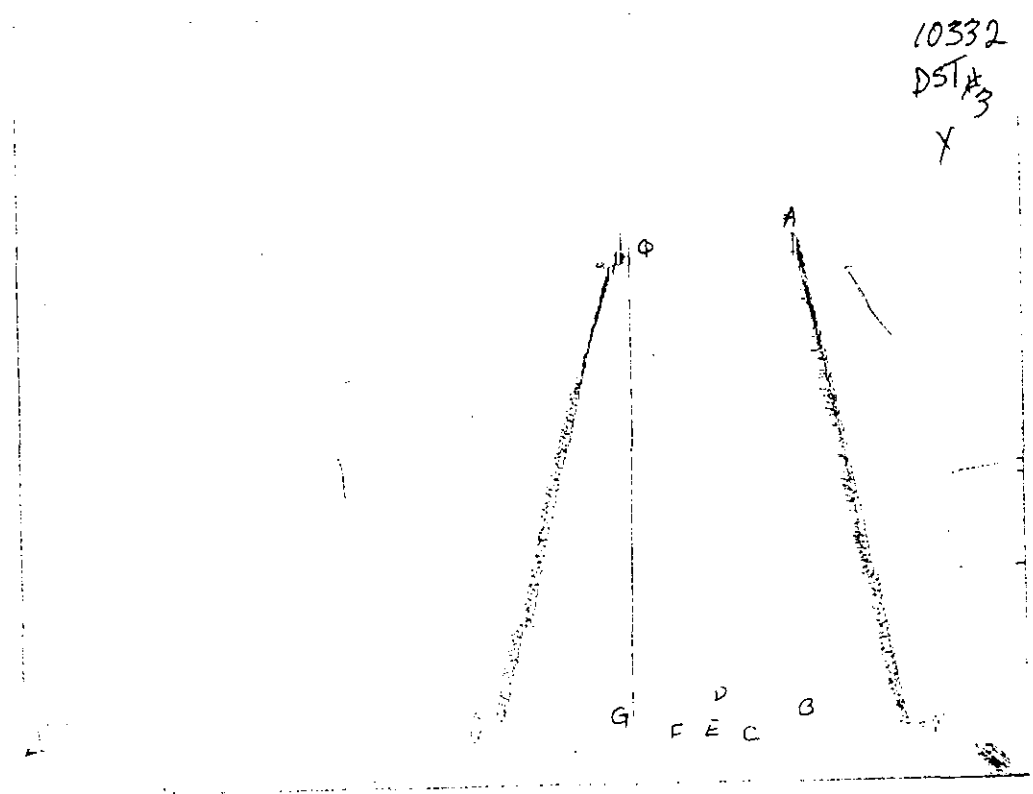


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11859 DST#3 Bouziden #2 CMX, Inc.

DATE: 10/03/98

TIME: 08:00:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	124.00	2589.3	0.0	121.74		
***** Start Flow 1	0.00	17.7	0.0	122.05		
	0.50	18.3	0.6	122.15		
	1.00	18.5	0.7	122.23		
	1.50	18.5	0.8	122.29		
	2.00	18.6	0.8	122.34		
	2.50	18.7	1	122.36		
	3.00	18.8	1.1	122.38		
	3.50	18.8	1.1	122.39		
	4.00	18.8	1.1	122.39		
	4.50	19.0	1.3	122.39		
	5.00	19.1	1.4	122.38		
	5.50	19.1	1.4	122.37		
	6.00	19.1	1.4	122.36		
	6.50	19.2	1.5	122.35		
	7.00	19.3	1.5	122.33		
	7.50	19.3	1.5	122.32		
	8.00	19.3	1.6	122.31		
	8.50	19.3	1.6	122.30		
	9.00	19.4	1.7	122.29		
	9.50	19.5	1.8	122.28		
	10.00	19.5	1.8	122.28		
	10.50	19.5	1.8	122.27		
	11.00	19.5	1.8	122.26		
	11.50	19.5	1.8	122.26		
	12.00	19.6	1.8	122.25		
	12.50	19.6	1.9	122.25		
	13.00	19.6	1.9	122.26		
	13.50	19.7	1.9	122.26		
	14.00	19.7	1.9	122.26		
	14.50	19.7	1.9	122.26		
	15.00	19.7	2.0	122.26		
	15.50	19.7	1.9	122.27		
	16.00	19.7	2.0	122.28		
	16.50	19.7	1.9	122.29		
	17.00	19.7	2.0	122.30		
	17.50	19.7	2.0	122.30		
	18.00	19.8	2.0	122.31		
	18.50	19.8	2.0	122.32		
	19.00	19.8	2.0	122.34		
	19.50	19.8	2.1	122.35		
	20.00	19.8	2.1	122.36		
	20.50	19.9	2.1	122.37		
	21.00	19.9	2.1	122.38		
	21.50	19.9	2.2	122.39		
	22.00	19.9	2.2	122.41		
	22.50	19.9	2.2	122.43		
	23.00	19.9	2.2	122.44		
	23.50	19.9	2.2	122.45		
	24.00	20.0	2.2	122.48		
	24.50	20.0	2.3	122.49		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11859 DST#3 Bouziden #2 CMX, Inc.

DATE: 10/03/98

TIME: 08:00:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.00	20.0	2.3	122.50		
	25.50	20.0	2.3	122.52		
	26.00	20.0	2.3	122.54		
	26.50	20.0	2.3	122.56		
	27.00	20.1	2.3	122.57		
	27.50	20.0	2.3	122.59		
	28.00	20.1	2.3	122.61		
	28.50	20.1	2.4	122.63		
	29.00	20.1	2.4	122.65		
	29.50	20.1	2.4	122.66		
***** End Flow 1	30.00	20.1	2.4	122.68		
***** Start Shutin 1	0.00	20.1	0.0	122.68	0.0000	0.000
	0.50	20.1	0.0	122.70	61.0000	0.000
	1.00	20.1	0.0	122.73	31.0000	0.000
	1.50	20.1	0.0	122.74	21.0000	0.000
	2.00	20.1	0.0	122.77	16.0000	0.000
	2.50	20.1	0.1	122.79	13.0000	0.000
	3.00	20.1	0.1	122.80	11.0000	0.000
	3.50	20.2	0.1	122.82	9.5714	0.000
	4.00	20.2	0.1	122.85	8.5000	0.000
	4.50	20.3	0.2	122.86	7.6667	0.000
	5.00	20.3	0.3	122.88	7.0000	0.000
	5.50	20.5	0.4	122.90	6.4545	0.000
	6.00	20.8	0.7	122.92	6.0000	0.000
	6.50	21.1	1.0	122.94	5.6154	0.000
	7.00	21.5	1.4	122.97	5.2857	0.000
	7.50	21.7	1.7	122.99	5.0000	0.000
	8.00	22.3	2.2	123.01	4.7500	0.000
	8.50	22.8	2.7	123.03	4.5294	0.001
	9.00	23.3	3.2	123.05	4.3333	0.001
	9.50	23.8	3.7	123.07	4.1579	0.001
	10.00	24.4	4.3	123.10	4.0000	0.001
	10.50	25.0	4.9	123.11	3.8571	0.001
	11.00	25.5	5.4	123.14	3.7273	0.001
	11.50	26.1	6.0	123.16	3.6087	0.001
	12.00	26.7	6.6	123.18	3.5000	0.001
	12.50	27.2	7.2	123.20	3.4000	0.001
	13.00	27.8	7.8	123.22	3.3077	0.001
	13.50	28.4	8.3	123.24	3.2222	0.001
	14.00	29.1	9.0	123.26	3.1429	0.001
	14.50	29.6	9.5	123.28	3.0690	0.001
	15.00	30.1	10.1	123.31	3.0000	0.001
	15.50	30.7	10.6	123.46	2.9355	0.001
	16.00	31.3	11.2	123.41	2.8750	0.001
	16.50	31.9	11.8	123.36	2.8182	0.001
	17.00	32.6	12.6	123.30	2.7647	0.001
	17.50	33.3	13.3	123.25	2.7143	0.001
	18.00	34.0	13.9	123.42	2.6667	0.001
	18.50	34.7	14.6	123.44	2.6216	0.001
	19.00	35.4	15.3	123.47	2.5789	0.001
	19.50	36.1	16.0	123.48	2.5385	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11859 DST#3 Bouziden #2 CMX, Inc.

DATE: 10/03/98

TIME: 08:00:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	20.00	36.7	16.7	123.51	2.5000	0.001
	20.50	37.5	17.4	123.53	2.4634	0.001
	21.00	38.1	18.0	123.55	2.4286	0.001
	21.50	38.7	18.7	123.57	2.3953	0.002
	22.00	39.5	19.4	123.58	2.3636	0.002
	22.50	40.1	20.0	123.61	2.3333	0.002
	23.00	40.9	20.8	123.62	2.3043	0.002
	23.50	41.6	21.5	123.65	2.2766	0.002
	24.00	42.2	22.2	123.67	2.2500	0.002
	24.50	42.5	22.5	123.69	2.2245	0.002
	25.00	42.5	22.4	123.71	2.2000	0.002
	25.50	42.4	22.3	123.73	2.1765	0.002
	26.00	42.3	22.2	123.75	2.1538	0.002
	26.50	42.2	22.1	123.77	2.1321	0.002
	27.00	42.1	22.0	123.79	2.1111	0.002
	27.50	42.4	22.3	123.81	2.0909	0.002
	28.00	42.9	22.8	123.83	2.0714	0.002
	28.50	43.5	23.5	123.84	2.0526	0.002
***** End Shut-in 1	29.00	44.3	24.2	123.87	2.0345	0.002
***** Start Flow 2	0.00	20.5	0.0	123.90		
	0.50	20.5	-0.0	123.93		
	1.00	20.4	-0.1	123.94		
	1.50	20.4	-0.2	123.96		
	2.00	20.4	-0.2	123.98		
	2.50	20.3	-0.2	124.00		
	3.00	20.2	-0.3	124.01		
	3.50	20.3	-0.3	124.03		
	4.00	20.3	-0.2	124.05		
	4.50	20.3	-0.2	124.07		
	5.00	20.4	-0.1	124.09		
	5.50	20.4	-0.1	124.11		
	6.00	20.4	-0.1	124.13		
	6.50	20.4	-0.1	124.16		
	7.00	20.5	-0.0	124.17		
	7.50	20.5	-0.0	124.30		
	8.00	20.5	0.0	124.30		
	8.50	20.5	-0.0	124.30		
	9.00	20.5	-0.0	124.30		
	9.50	20.5	-0.0	124.30		
	10.00	20.5	-0.0	124.30		
	10.50	20.5	-0.0	124.30		
	11.00	20.4	-0.1	124.31		
	11.50	20.5	-0.0	124.30		
	12.00	20.5	-0.0	124.30		
	12.50	20.5	-0.0	124.30		
	13.00	20.5	-0.0	124.30		
	13.50	20.5	-0.0	124.30		
	14.00	20.5	-0.1	124.30		
	14.50	20.5	-0.0	124.30		
	15.00	20.5	0.0	124.30		
	15.50	20.5	0.0	124.29		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11859 DST#3 Bouziden #2 CMX, Inc.

DATE: 10/03/98

TIME: 08:00:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	16.00	20.5	0.0	124.30		
	16.50	20.5	-0.0	124.48		
	17.00	20.5	-0.0	124.51		
	17.50	20.5	0.0	124.54		
	18.00	20.5	0.0	124.55		
	18.50	20.5	0.0	124.57		
	19.00	20.5	0.0	124.59		
	19.50	20.5	0.0	124.60		
	20.00	20.5	0.0	124.62		
	20.50	20.5	0.0	124.64		
	21.00	20.6	0.1	124.66		
	21.50	20.5	0.0	124.67		
	22.00	20.5	0.0	124.69		
	22.50	20.5	-0.0	124.72		
	23.00	20.6	0.0	124.73		
	23.50	20.5	0.0	124.74		
	24.00	20.5	-0.0	124.76		
	24.50	20.5	0.0	124.77		
	25.00	20.5	0.0	124.79		
	25.50	20.5	-0.0	124.81		
	26.00	20.5	0.0	124.82		
	26.50	20.5	0.0	124.84		
	27.00	20.5	0.0	124.86		
	27.50	20.5	0.0	124.88		
	28.00	20.5	0.0	124.89		
	28.50	20.6	0.0	124.91		
	29.00	20.6	0.0	124.92		
	29.50	20.6	0.1	124.94		
	30.00	20.5	0.0	124.96		
***** End Flow 2	30.50	20.6	0.1	124.97		
***** Start Shutin 2	0.00	20.6	0.0	124.97	0.0000	0.000
	0.50	20.6	0.0	124.99	122.0000	0.000
	1.00	20.6	-0.0	125.01	61.5000	0.000
	1.50	20.6	0.0	125.02	41.3333	0.000
	2.00	20.6	0.0	125.04	31.2500	0.000
	2.50	20.7	0.1	125.05	25.2000	0.000
	3.00	20.7	0.1	125.07	21.1667	0.000
	3.50	20.7	0.1	125.08	18.2857	0.000
	4.00	20.7	0.1	125.10	16.1250	0.000
	4.50	20.7	0.1	125.11	14.4444	0.000
	5.00	20.7	0.1	125.14	13.1000	0.000
	5.50	20.7	0.1	125.15	12.0000	0.000
	6.00	20.7	0.1	125.16	11.0833	0.000
	6.50	20.8	0.2	125.17	10.3077	0.000
	7.00	20.8	0.2	125.19	9.6429	0.000
	7.50	20.8	0.2	125.21	9.0667	0.000
	8.00	20.8	0.2	125.23	8.5625	0.000
	8.50	20.8	0.2	125.24	8.1176	0.000
	9.00	20.8	0.2	125.26	7.7222	0.000
	9.50	20.8	0.2	125.27	7.3684	0.000
	10.00	20.9	0.3	125.29	7.0500	0.000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#11859 DST#3 Bouziden #2 CMX, Inc.

DATE: 10/03/98

TIME: 08:00:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.50	20.9	0.3	125.30	6.7619	0.000
11.00	21.0	0.4	125.32	6.5000	0.000
11.50	21.1	0.5	125.34	6.2609	0.000
12.00	21.2	0.6	125.35	6.0417	0.000
12.50	21.3	0.7	125.37	5.8400	0.000
13.00	21.5	0.9	125.38	5.6538	0.000
13.50	21.6	1.0	125.39	5.4815	0.000
14.00	21.7	1.1	125.41	5.3214	0.000
14.50	21.9	1.3	125.42	5.1724	0.000
15.00	22.1	1.5	125.44	5.0333	0.000
15.50	22.3	1.7	125.45	4.9032	0.000
16.00	22.5	1.9	125.47	4.7812	0.001
16.50	22.7	2.1	125.49	4.6667	0.001
17.00	22.9	2.3	125.50	4.5588	0.001
17.50	23.1	2.5	125.52	4.4571	0.001
18.00	23.3	2.7	125.53	4.3611	0.001
18.50	23.5	2.9	125.54	4.2703	0.001
19.00	23.6	3.0	125.56	4.1842	0.001
19.50	23.8	3.2	125.57	4.1026	0.001
20.00	24.0	3.4	125.59	4.0250	0.001
20.50	24.2	3.6	125.60	3.9512	0.001
21.00	24.4	3.8	125.62	3.8810	0.001
21.50	24.6	4.0	125.63	3.8140	0.001
22.00	24.8	4.2	125.65	3.7500	0.001
22.50	25.0	4.4	125.66	3.6889	0.001
23.00	25.2	4.6	125.68	3.6304	0.001
23.50	25.4	4.8	125.69	3.5745	0.001
24.00	25.6	5.0	125.70	3.5208	0.001
24.50	25.8	5.2	125.72	3.4694	0.001
25.00	25.9	5.3	125.73	3.4200	0.001
25.50	26.1	5.5	125.74	3.3725	0.001
26.00	26.4	5.8	125.76	3.3269	0.001
26.50	26.5	5.9	125.77	3.2830	0.001
27.00	26.7	6.1	125.79	3.2407	0.001
27.50	27.0	6.4	125.80	3.2000	0.001
28.00	27.1	6.5	125.82	3.1607	0.001
28.50	27.3	6.7	125.83	3.1228	0.001
29.00	27.5	6.9	125.84	3.0862	0.001
29.50	27.7	7.1	125.86	3.0508	0.001
30.00	27.9	7.3	125.87	3.0167	0.001
30.50	28.1	7.5	125.89	2.9836	0.001
31.00	28.3	7.7	125.90	2.9516	0.001
31.50	28.5	7.9	125.91	2.9206	0.001
32.00	28.6	8.0	125.93	2.8906	0.001

\*\*\*\*\* End Shut-in 2

\*\*\*\*\* Final Hydro. 248.00 2445.4 0.0 126.01

# TRILOBITE TESTING L.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11859

Well Name & No. Benzider #2 Test No. #3 Date 10/3/1998  
 Company CMX, Inc. Zone Tested Viola  
 Address 150 N Main Suite 1026 Wichita, KS 67202 Elevation 1685 KB 1676 GL  
 Co. Rep / Geo. Doug McGinness Cont. Duke #4 Est. Ft. of Pay      Por.      %  
 Location: Sec. 13 Twp. 34<sup>S</sup> Rge. 14<sup>W</sup> Co. Barber State KS  
 No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 5180' - 5212' Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 54,000  
 Anchor Length 32' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 5175' Tool Weight 2100  
 Bottom Packer Depth 5180 Hole Size — 7 7/8" L Rubber Size — 6 3/4" L  
 Total Depth 5212 Wt. Pipe Run N/A Drill Collar Run N/A  
 Mud Wt. 9.1 LCM      Vis. 55 WL 13.2 Drill Pipe Size 4 1/2 XH Ft. Run 5160'

Blow Description IF: Wear blow built to 1/2" in H2O.  
ISI: Bled down for 5 mins No pb  
FF: No blow.  
FSI: No pb.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>10'</u>	<u>N/A</u>	<u>N/A</u>	<u>10'</u>
Rec. <u>10'</u> Feet Of <u>Drilling Mud</u>	%gas	%oil	%water <u>100</u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water <u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water <u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water <u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water <u>    </u> %mud

BHT 126° °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 9,500 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2620</u>	<u>2589</u>	<u>2357</u>	<u>06:45</u>
(B) First Initial Flow Pressure	<u>30</u>	<u>18</u>	(depth) <u>5186'</u>	T-Started <u>07:29:00</u>
(C) First Final Flow Pressure	<u>30</u>	<u>20</u>	PSI Recorder No. <u>10332</u>	T-Open <u>10:05:00</u>
(D) Initial Shut-In Pressure	<u>51</u>	<u>44</u>	(depth) <u>5209'</u>	T-Pulled <u>12:05:00</u>
(E) Second Initial Flow Pressure	<u>30</u>	<u>21</u>	PSI Recorder No. <u>    </u>	T-Out <u>13:48:00</u>
(F) Second Final Flow Pressure	<u>30</u>	<u>21</u>	(depth) <u>    </u>	T-Off Location <u>14:30:00</u>
(G) Final Shut-in Pressure	<u>51</u>	<u>29</u>	PSI Initial Opening <u>30</u>	Test <u>    </u>
(Q) Final Hydrostatic Mud	<u>2640</u>	<u>2445</u>	PSI Initial Shut-in <u>30</u>	Jars <u>    </u>
			Final Flow <u>30</u>	Safety Joint <u>    </u>
			Final Shut-in <u>30</u>	Straddle <u>    </u>
				Circ. Sub <u>    </u>
				Sampler <u>    </u>
				Extra Packer <u>    </u>
				Elec. Rec. <u>    </u>
				Mileage <u>    </u>
				Other <u>    </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature] 3



TRILOBITE TESTING L.L.C.

OPERATOR : CMX, Inc. DATE 10/04/199  
 WELL NAME: Bouziden KB 1685.00 ft TICKET NO: 11860 DST #4  
 LOCATION : 15-34s-14w Barber co. KS GR 1676.00 ft FORMATION: Toronto/Douglas  
 INTERVAL : 3968.00 To 4000.00 ft TD 5270.00 ft TEST TYPE: CONVENTIONAL/STRDLR

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 0 Rec.	10332	10332	2357	10991		PF Fr. mis to run hr
SI 0 Range(Psi)	4025.0	4025.0	4995.0	4200.0	0.0	IS Fr. to hr
SF 0 Clock(hrs)	12hr.	12hr.	elec	12hr.		SF Fr. to hr
FS 0 Depth(ft)	3993.0	3993.0	3974.0	4007.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2008.0	0.0	1951.0	0.0	0.0	T STARTED 1217 hr
B. First Flow	1206.0	0.0	1500.0	0.0	0.0	T ON BOTM 1450 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 1455 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 1500 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 1630 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1998.0	0.0	1970.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	I	S			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 58000.00 lbs
						Initial Str Wt 46000.00 lbs
						Unseated Str Wt 56000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3958.00 ft

RECOVERY

Tot Fluid 120.00 ft of 0.00 ft in DC and 120.00 ft in DP  
 120.00 ft of drilling mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Misrun due to upper packer failure.

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	48.00 S/L
W.L.	14.00 in3
F.C.	0.32 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out Y	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Doug McGinness
Contr.	Duke
Rig #	4
Unit #	no
Pump T.	none

SAMPLES:  
 SENT TO:

Test Successful: N

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL/STRDLLE

ELL NAME: Bouziden

LOCATION : 15-34s-14w Barber co. KS

TICKET No. 11860 D.S.T. No. 4 DATE 10/04/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28

INTERVAL TOOL .....

TOTAL PACKERS AND ANCHOR ..... 32

TOTAL TOOL ..... 62

DRILL COLLAR ANCHOR IN INTERVAL .....

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY ..... 62

C. ABOVE TOOLS.Stands Single Total

P. ABOVE TOOLS.Stands63 Single 1 Total 3958

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4020

TOTAL DEPTH ..... 5270

TOTAL DRILL PIPE ABOVE K.B. .... 18

REMARKS:

P.O. SUB top of tool @	3941
C.O. SUB	3942
S.I. TOOL	3947
HMV	3952
JARS	3957
SAFETY JOINT	3959
PACKER	3963
PACKER	3968
DEPTH 3968	
STUBB 1'to	3969
ANCHOR perfs ---	
Alpine rec. @	3974
AK-1 rec.@ 3993	
28'perfs & blank	
off sub to	3997
T.C. 3'	4000
DEPTH 4000	
4000	
Hook wall tool @	4002
AK-1 rec.@4007'	
BULLNOSE 5' perforated	4010
T.D.	

# TEST HISTORY

TK#11860 DST#4 Bouziden #2 CMX, Inc.

Flag Points  
t (Min.) P (PSig)

R: 0.00 1951.46  
B: 0.00 1500.87  
Q: 0.00 1969.52

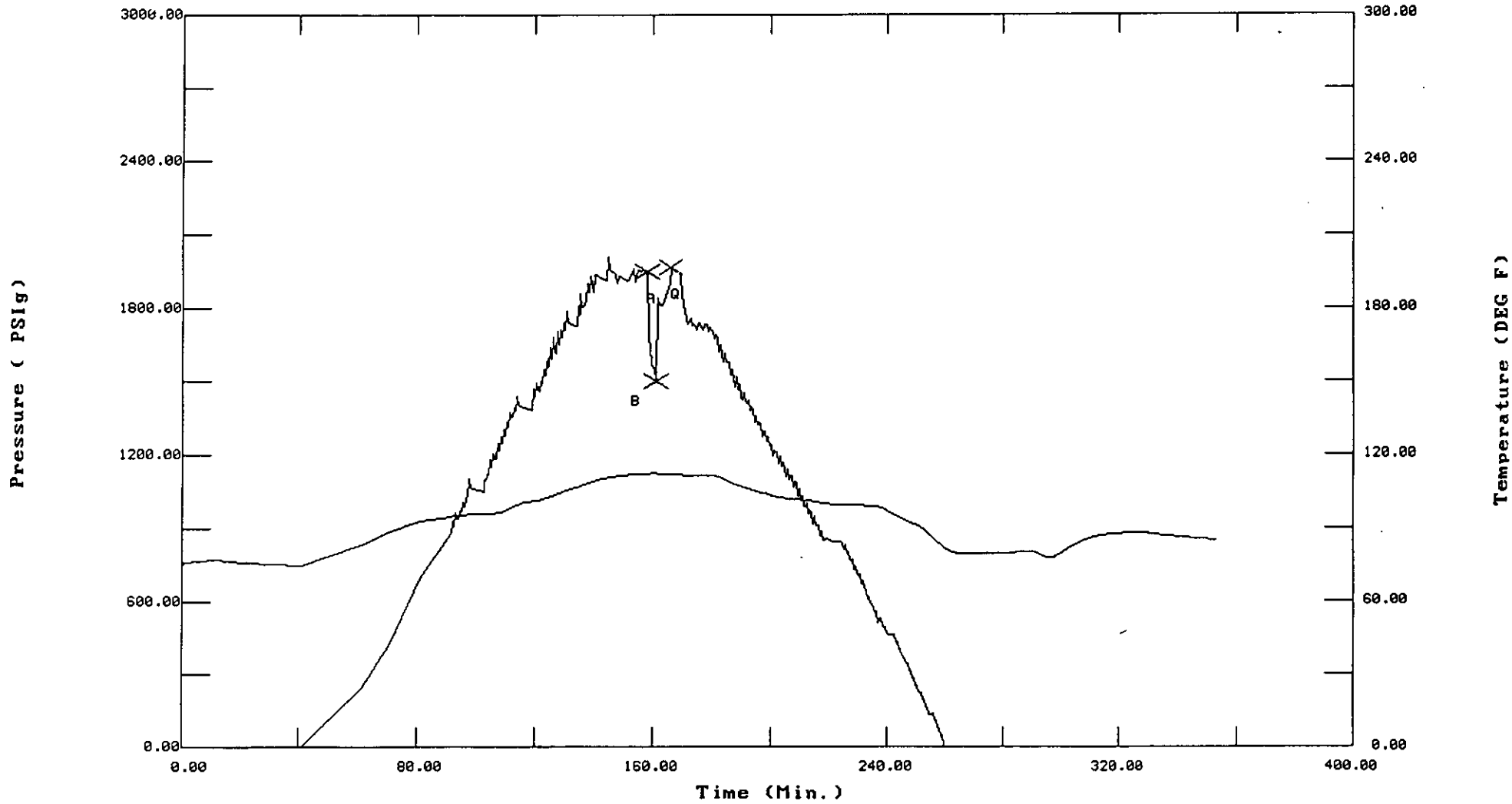
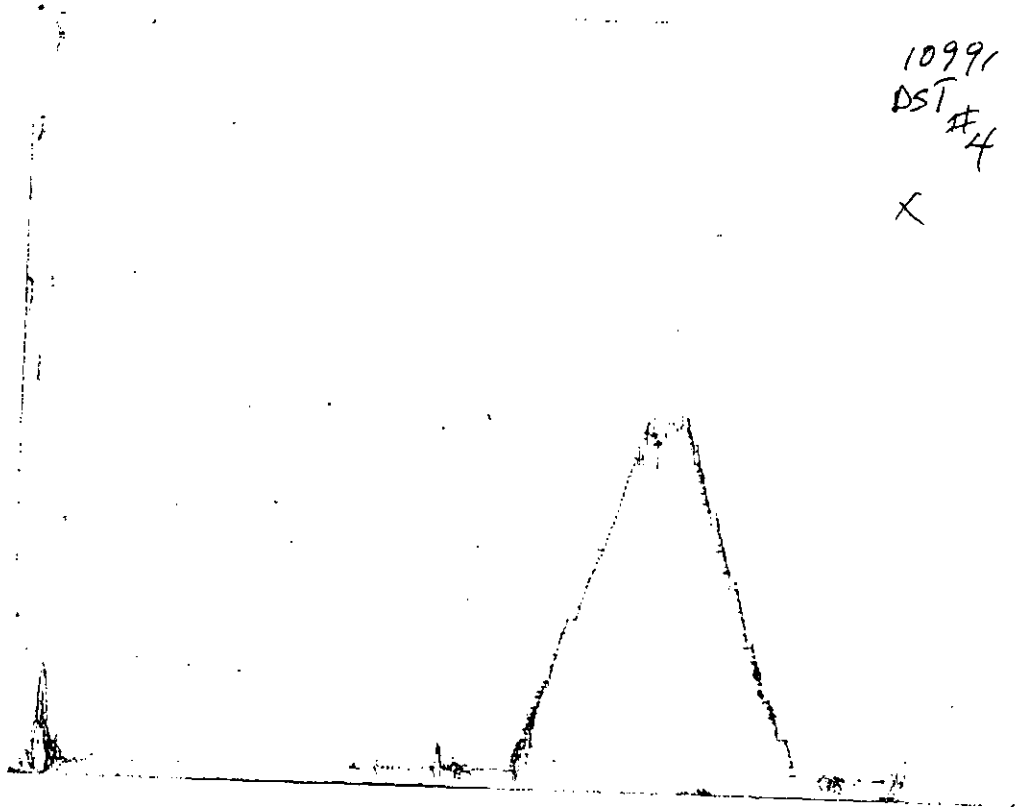


CHART PAGE

10991  
DST #4  
X



This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#11860 DST#4 Bouziden #2 CMX, Inc.

DATE: 10/04/98 TIME: 12:17:54

	Time	Pressure	delta P	Temp.	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
		PSig	PSig	DEG F		
***** Initial Hydro.	158.00	1951.5	0.0	112.22		
***** Start Flow 1	0.00	1500.9	0.0	112.46		
	0.50	1842.5	341.6	112.38		
	1.00	1819.2	318.4	112.31		
	1.50	1812.4	311.6	112.22		
	2.00	1812.4	311.5	112.14		
	2.50	1830.3	329.4	112.07		
	3.00	1848.5	347.6	112.01		
	3.50	1871.1	370.2	111.96		
	4.00	1886.7	385.8	111.92		
	4.50	1908.0	407.1	111.88		
***** End Flow 1	5.00	1969.5	468.7	111.85		

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11860

Well Name & No. <u>Bouziden #2</u>		Test No. <u>#4</u>	Date <u>10/4/1998</u>
Company <u>CMX, Inc</u>		Zone Tested <u>Toronto/Douglas</u>	
Address <u>150 N. Main Suite 1026 Wichita, KS 67202</u>		Elevation <u>1685</u>	KB <u>1676</u> GL
Co. Rep / Geo. <u>Doug McGinness</u>		Cont. <u>Duke #4</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>15</u>	Twp. <u>34S</u>	Rge. <u>14W</u>	Co. <u>Barber</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>3968' - 4000'</u>	Initial Str Wt/Lbs. <u>46,000</u>	Unseated Str Wt/Lbs. <u>56,000</u>
Anchor Length <u>32'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>58,000</u>
Top Packer Depth <u>3963 - 3968'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4000'</u>	Hole Size — <u>7 7/8" ✓</u>	Rubber Size — <u>6 3/4" ✓</u>
Total Depth <u>5270'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>N/A</u>
Mud Wt. <u>LCM</u> Vis. <u>WL</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3953'</u>

Blow Description IF. STRONG BLOW / COMMENT: SET HOOK & LWR. PACKER OPENED TOOL & HAD UPPER PIKRS. FAIL! APPLIED MORE WEIGHT BUT WERE STILL UNSUCCESSFUL GETTING UPPER PIKRS TO SEAT. / MISRUN - UPPER PIKR. FAILURE!

Recovery — Total Feet <u>120'</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>120'</u>
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT 112" °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2008</u>	<u>1951</u>	<u>2357</u>	
(B) First Initial Flow Pressure	<u>1206</u>	<u>1500</u>	(depth) <u>3974'</u>	T-Started <u>12:17:00</u>
(C) First Final Flow Pressure			PSI Recorder No. <u>10332</u>	T-Open <u>07:55:00</u>
(D) Initial Shut-In Pressure			PSI (depth) <u>3993'</u>	T-Pulled <u>15:00:00</u>
(E) Second Initial Flow Pressure			PSI Recorder No. <u>10991</u>	T-Out <u>16:30:00</u>
(F) Second Final Flow Pressure			PSI (depth) _____	T-Off Location <u>18:30</u>
(G) Final Shut-in Pressure			PSI Initial Opening <u>M.S</u>	Test <u>✓</u>
(Q) Final Hydrostatic Mud	<u>1998</u>	<u>1970</u>	PSI Initial Shut-in <u>RVA</u>	Jars <u>✓</u>

Final Flow \_\_\_\_\_ Safety Joint ✓  
 Final Shut-in \_\_\_\_\_ Straddle ✓  
 \_\_\_\_\_ Circ. Sub ✓  
 \_\_\_\_\_ Sampler \_\_\_\_\_  
 Extra Packer ✓  
 Elec. Rec. ✓  
 Mileage \_\_\_\_\_  
 Other Hank Hall

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Approved By [Signature]